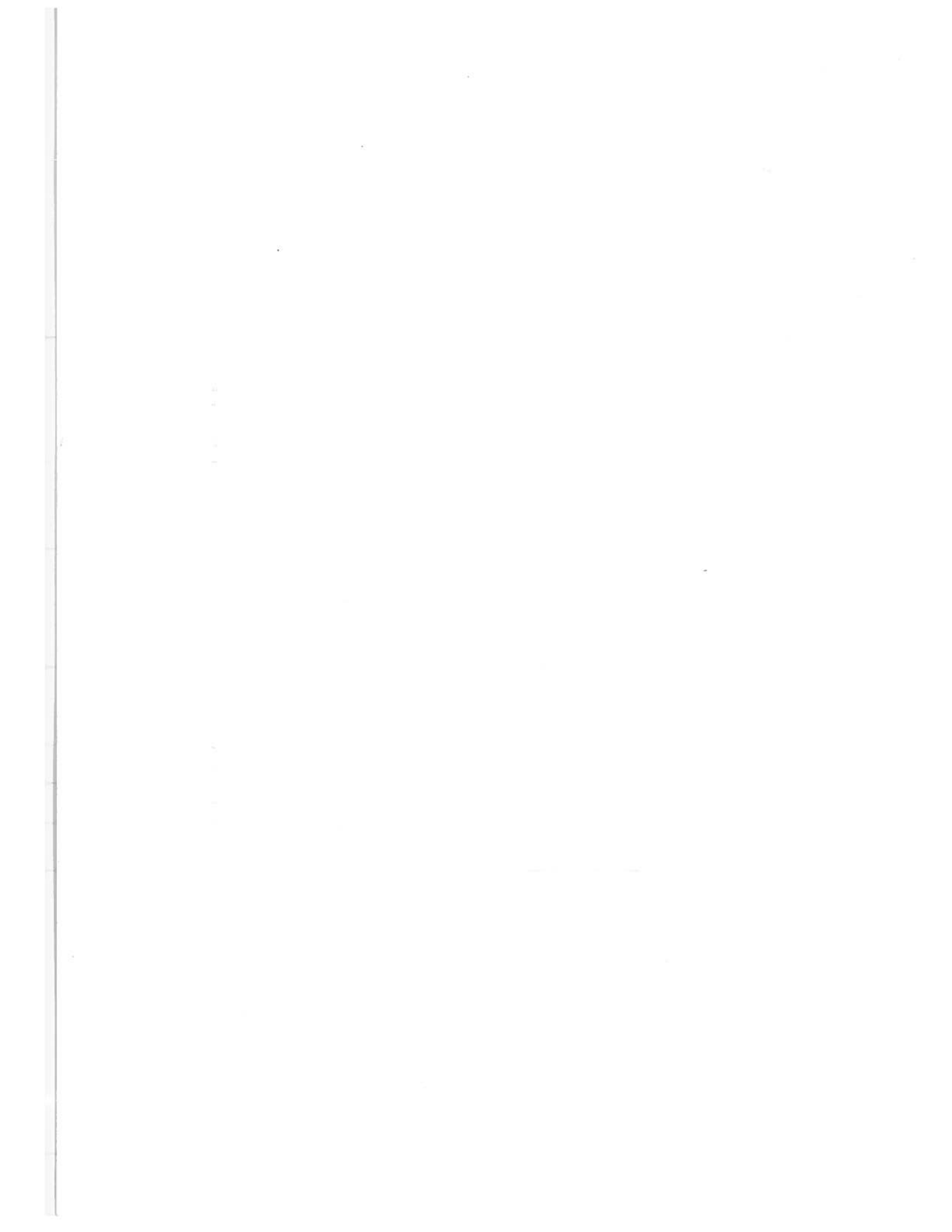


## INTRODUCTION

The following sets forth the inventory of DOT statistical information systems. The inventory represents an update of relevant systems described in the Transportation Statistical Reference File (TSRF), coordinated with the GAO update of Congressional Sources and Systems, and the Information Collection Budget. The inventory compilation was prepared by the Center for Transportation Information, Transportation Systems Center, working closely with members of the Department's Statistical Policy Coordinating Committee in each of the operating administrations. For each operating administration, the inventory includes the organizational element, the title of the statistical information system, and a brief description.

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# INVENTORY OF DOT STATISTICAL INFORMATION SYSTEMS

## Inventory of U.S. Coast Guard

### Organizational Element - Policy Planning and Evaluations Staff

#### Title - Boating Statistics

Brief Description - Reports boat numbering registration and boating accidents involving fatalities, injuries, or property damage exceeding \$100. Covers fifty states, DC, Guam, Puerto Rico, the Virgin Islands, and American Samoa. Contents: Introduction and summary with text table showing fatalities and rates; seventeen tables, listed below, and seven charts; summary of Coast Guard auxiliary safety program activities; and glossary and facsimile of old and new accident reporting forms. Tables: Types of vessel casualties include grounding, capsizing, flooding, sinking, fires, collision, striking floating object, and other. Personal casualties include falls overboard or in boat, burns and scalds, being struck by boat or propeller, crushing or pinching, and other. Summary tables: Registration data -- 1) Numbering data by state. 2) Classification of numbered motorboats. 3) Numbered motorboats by propulsion and hull material. Accident data -- 4) Five-year summary of selected accident data by state. 5-7) Boating accidents, vessels involved in accidents (by type of casualty), and results of boating accidents (fatalities, injuries, and property damage). 8) Weather and water conditions (associated with vessels involved in accidents, fatalities, and injuries). 9) Accident data by state (number of accidents, number of vessels and persons involved, and dollar amount of damage). 10) Types of accidents by state (number of vessels involved, with or without vessel casualty, and number of victims by drownings, other deaths or injury). 11) Jurisdiction of boating accidents by state. Detailed tables -- (Data are cross-tabulated by operators age and experience, boat type, hull material, length, propulsion, horsepower, and operation at time of accident). 12) Vessels involved in all accidents by principal cause. 13-14) Principal cause of fatalities and of injuries. 15-17) Vessels involved, fatalities, and injuries by type of casualty.

### Organizational Element - Office of Research and Development

#### Title - Hazard Assessment Computer System (HACS)

Brief Description - The HACS data base is the computerization of the Chemical Hazards Response Information Service Manual No. 3. The NRC has mainly been used for oil spills reports which are then run through HACS. Incorporated in HACS are eighteen different spill models in Manual No. 3 and the chemical data in Manual No. 2. Each accident is analyzed and fit into a model. It can be used to set up a tree-like model which will show how each step of the accident will proceed, how quickly the cargo will disperse, the expected extent of the spill and its effects on the marine environment, etc. Inputs into HACS include all data available on the spill, time of the spill, weather and sea conditions, location, vessel and hull types.

Organizational Element - Environmental Response Division

Title - Pollution Incident Reporting System II (PIRS)

Brief Description - The system was developed for the marine environmental protection staff to generate a data base of pollution incidents. PIRS II reports all pollution incidents which occur within the United States, the District of Columbia, and American Territories. The principal data elements are types of pollution incidents, types of responses to these incidents, and enforcement data. The master file is updated monthly. Monthly and quarterly reports are produced for the usage of each district. An annual publication is produced for the general public, industry, Congress and academic institutions. Reports include major waterbody breakdown, location data, material data, cause data, source data, and various charts. Special reports for individual analysis and research are produced daily and are available upon request. Annual report: Polluting Incidents In and Around U.S. Water, 1977.

Organizational Element - Office of Research and Development

Title - Chemical Hazards Response Information System (CHRIS)

Brief Description - The CHRIS system is composed of four manuals, each of which concerns a different aspect of U.S.C.G. response to a marine casualty involving hazardous chemicals. The manuals are 1) Immediate response -- what the U.S.C.G. should do when arriving at the scene of the accident; 2) Data -- chemical, physical, biological, and other detailed information; 3) Hazard assessment -- definition of the spill in terms of a series of 18 models (some of which are still theoretical and in the experimental stage) on how the spill will behave (downwind problems, water toxicity, flammability hazards, etc.); 4) Specific responses -- cleanup procedures, equipment availability, etc.

Organizational Element - Information and Analysis Staff

Title - Merchant Vessels of the United States

Brief Description - Annual listing of all American merchant vessels and yachts registered. Includes listings of vessels lost, abandoned, transferred to aliens, or removed from registration for other causes. Contains foreword and explanation of terms and abbreviations and listings and indexes as follows: A. List of vessels, alphabetically by name. B. List of mortgaged vessels lost, abandoned or otherwise subject to removal from documentation, but having documentation that may not be surrendered under provisions of 46 U.S.C. 961 (A). C. Signal and radio call letters of vessels. D. Present names of merchant vessels showing former names. E. Former names of merchant vessels showing present names. F. Index to compound names. G. Vessels lost; abandoned or removed for other cause; and sold or transferred to aliens. Index of managing owners. For registered vessels, listing shows official number, signal and radio call letters, rig, names of vessel, gross and net tonnage, dimensions, hull type, when and where built, horsepower, service, owner, and home port. For vessels removed or subject of removal, listings show official number, rig, name of vessel, gross tons, and disposition. Report has been issued since 1967. A monthly supplement (published 1967 - present) presenting data on new registrations and changes is also issued.

Organizational Element - Information and Analysis Staff

Title - Merchant Vessel Documentation System (MVD)

Brief Description - Principal data elements are official register number, vessel number, vessel name, vessel description, home port, and owner data. Information is also integrated into the Merchant Marine Information System (MMIS). The system enables the Coast Guard to publish merchant vessels of the U.S. (annual), and monthly supplements.

Organizational Element - Policy Planning and Evaluations Staff

Title - Motorboat Accident Statistics (MBA)

Brief Description - The system provides annual statistical summaries on motorboat accidents. The principal data elements are case number, date, state, country, cause, fatalities, injuries, operator age, vessel types, time, and environmental conditions. A magnetic tape is produced on a monthly basis to update the Office of Boating Safety Management Information System. Thirty-two annual reports are generated by this system. One of them is the Coast Guard Boating Statistics, required by the Federal Boat Safety Act of 1971.

Organizational Element - U.S. Coast Guard

Title - CHRIS: A Condensed Guide to Chemical Hazards (ADA 002 390)

Brief Description - The Chemical Hazards Response Information System (CHRIS) manual is an official publication of the United States Coast Guard. It is a condensed guide to chemical hazards; hazardous chemical data; provides timely information essential for proper decision-making by responsible Coast Guard personnel and others during emergencies involving the water transport of hazardous chemicals. It also provides certain basic nonemergency-related information to support Coast Guard efforts to achieve improved levels of safety in the bulk shipment of hazardous chemicals. The four manuals contain chemical data, hazard-assessment methods and response guides.

Organizational Element - Information and Analysis Staff

Title - List of Inspected Tank Barges and Tankships, 1977-Present

Brief Description - Listing of tanker ships and tank barges inspected and certified by the Coast Guard. Contains: A. Tank barges and tanker ships including name and number, gross tonnage, construction data and material, length, owner operator, route, capacity, highest certified cargo grade, certificate expiration date, and last drydock date. B. Hazardous materials barges, includes number, cargoes and temperature and pressure at which cargoes are carried.



Organizational Element - Office of Merchant Marine Safety

Title - Vessel Casualty Data File

Brief Description - This computerized bank contains information on merchant ship casualties since 1963 and is updated annually in a fiscal year basis. A casualty as defined in the federal code, is any occurrence that meets one of the following criteria: Damage of \$1,500 or more grounding; any accident that renders a vessel unseaworthy; any accident resulting in loss of life; or any injury that causes a seaman to be laid up for seventy-two hours or more. Reports on casualties are filed with local marine safety offices and are then investigated, with the results of the investigation being filed with Coast Guard Headquarters in Washington. The report is reviewed and entered into the file. Data in the file cover all U.S. flag ships regardless of location at the time of the casualty and all non-U.S. flag ships in U.S. territorial waters. Particulars of the data include: vessel ID and code; time of day of the accident; weather and sea conditions at the time of the accident; ships particulars, including its dimensions, gross tons, and hull type; personnel, location of casualty by type of water body and specific geographical location; codes for the cause and contributing factors; and results of the casualty, i.e., the number of injuries, an estimate of the dollar damages, pollution, and whether or not there was a total loss. Inquiries are answered preferably by letter that the Coast Guard can maintain on file. Standard charges for printouts are determined by the federal code computer rates.

Organizational Element - Port and Environment Safety Division

Title - Port Safety Reporting System (PSRS)

Brief Description - This system provides violation histories of vessels and responsible parties to captains of the port (COTP) and district hearing officers in order to identify violators. All U.S. ports, including Hawaii, Alaska, Guam, Virgin Islands, and Puerto Rico, are incorporated in this system. Data are maintained on both U.S. and foreign vessels. The principal data elements are vessel name and registry, vessel characteristics such as propulsion type and tonnage, all involved parties, violations found during inspection, certificate of inspection data, and, where applicable, letter of compliance. The update cycle is weekly. The major reports are violation histories available to the captains of the port (COTP), and to the district hearing officers. Hardcopy reports are generated daily or as needed via teletype terminals. There is no query capability available to COTP personnel, but query capability is available to headquarters.

Organizational Element - Planning and Evaluation Staff

Title - Census of Marine Traffic Derived From Side-Looking Airborne Radar Data, Series CG-D

Brief Description - Examples of reports in series for 1974: Long Island Sound, report No. CG-D-173-75; lower Mississippi River report No. CG-D-172-75.

Organizational Element - Information and Analysis Staff

Title - Statistics of Casualties

Brief Description - A statistical summary of commercial vessel casualties that were investigated by the Coast Guard Marine inspectors. The public, industry, and Coast Guard have used the findings of these investigations to establish standards and determine the need for legislation to improve the protection of safety of life and property at sea. Includes statistical data for 1963, 1965-71, and 1973-79.

Organizational Element - Search and Rescue Division

Title - Coast Guard Service-Wide Search and Rescue Statistics

Brief Description - Contains three charts, a summary table, and three tables showing responses, deaths and property loss prevented annually for the fiscal year and 5-year averages, repeated for: Districts, air stations, bases, patrol boats, groups/sections, and stations.

Organizational Element - Plans and Programs Staff

Title - Operational Statistics System (OPSTAT)

Brief Description - The system is to produce statistical reports of aircraft, boats, and cutters for each district. These reports reflect the activities within current Coast Guard programs and represent a bona fide method for planning, programming, and budgeting Coast Guard programs. The system is Coast Guard-wide. Principal data elements are cumulative hours expended for operation of aircraft, boats, and cutters within current Coast Guard programs, i.e., search and rescue. Reports include: Abstract of operation boat reports (quarterly-annually), abstract of operation aircraft/maintenance (quarterly/annually; hardcopy), and abstract of operation cutter report (quarterly/annually; hardcopy). There is no query capability.

Organizational Element - Office of Comptroller, Economic Review and Analysis Staff

Title - Operating Cost of Coast Guard Cutters (1951-Present)

Brief Description - Annual report on Coast Guard Cutter Operating Costs, by cost item, individual vessel, and program. Contains preface and three tables listed below. Report has been issued annually since 1951. 1) Service-wide average cost of Coast Guard cutters (by class of unit and major items of cost; and total and percent change). 2) Operating costs of Coast Guard cutters by class unit and major items of cost (by individual vessel, total, resource, and operating hours). 3) Service-wide summary of operating costs of Coast Guard cutters by class of unit and programs.



# INVENTORY OF DOT STATISTICAL INFORMATION SYSTEMS

## Inventory of Federal Aviation Administration

Organizational Element - Office of Management Systems

Title - National Airspace System Operational Information

Brief Description - This information source is used to produce the aeronautical charts, flight publications, and operational data used in operating the National Airspace System. Information is derived from internal and external elements of the aviation community. The airspace configuration and flight procedures are the product of an identified operational requirement, and are designated by rulemaking action. Physical characteristics and operational status of the navigational and communications components of the airspace and the airport in the system are collected from the operators of the activities. Information is received from other federal agencies and local governments as well as other elements of the aviation community. Information is about airports (identification, location, physical characteristics, and services), obstructions, navigational aids and communications facilities (location, operational characteristics), the configuration of the airspace, airway and route descriptions, airway/route fixes, holding patterns, terminal flight procedures, and special use airspace descriptions. A substantial amount of the information is in machine-readable form, and can be queried. Among regularly published reports are: Aeronautical Charts, The National Flight Data Digest (NFDD), and NOTAM (teletype message containing a Notice to Airmen).

Organizational Element - FAA

Title - Instrument Landing system (ILS)

Brief Description - The file covers Instrument Landing Systems used in the National Airspace System in terms of components (localizers; glideslope; inner, middle and outer markers and compass locators), their locations, frequencies, identifiers and other related data. This information is depicted on aeronautical charts and publications. This area of coverage is the U.S. and its possessions. Source documents; FAA records, ILS records, ILS standard instrument approach procedure, and FAA form 8260-3. Publications; ADP print-out.

Organizational Element - FAA

Title - Air Routes Traffic Control Center (ARTCC)

Brief Description - The file makes a definition of the boundary of each Air Route Traffic Control Center (ARTCC) in terms of latitude and longitude describing each point on the boundary. These points, when connected, describe the ARTCC boundary. Source documents; FAA Records. Publications; ADP print-out.

Organizational Element - FAA

Title - Airspace Obstruction - 1973 and Ongoing

Brief Description - The file covers Airspace Obstructions within all FAA Regions, described in terms of physical characteristics and location. Source documents; FAA Records Obstruction form 7460.1.

Organizational Element - Air Traffic Service - FAA

Title - Index of Standard Instrument Approach Procedures

Brief Description - Gives in tabular form city, airport, type, procedure, amendment number, and effective date as of specific dates.

Organizational Element - Air Traffic Service - FAA

Title - National Flight Data Center (NFDC) Data Base-FAA Airspace Information

Brief Description - An extensive data base containing such information as airports--new and abandoned, airports--latitude and longitude, airport runways, airway obstructions, bearing and distance information, flight planning information, FSS locations and records, hazards records, nav aids/communications, nav aids--latitude and longitude, NOTAMS, VOR checkpoints, reporting points, satellite communication and special use airspace.

Organizational Element - FAA

Title - Code Translation File (Three Reference Files) - 1973

Brief Description - The reference files are code translation tables required to identify codes in the aircraft registration master file and the aircraft monthly supplemental file. The three files are aircraft manufacturer/modal series reference file, engine manufacturer/modal reference file, and airport identification reference file.

Organizational Element - Office of Management Systems

Title - U.S. Civil Airmen Statistics - 1969

Brief Description - Annual report on the number of U.S. Civil Airmen, both pilot and non pilots, by type of certificate held, by sex and age, and by FAA region and state, includes earlier comparative data for some items.



Organizational Element - Office of Aviation Policy

Title - Profiles of Scheduled Air Carrier Operations

Brief Description - Several reports are published in this series: 1) Profiles of Scheduled Air Carrier Airport Operations - Top 10 U.S. Airports (annual-previously semiannual). Report gives data on total scheduled air carrier aircraft operations by hour of the day for the top 100 airports in the U.S., D.C., and Puerto Rico. Selection of the top 100 airports was based on the number of air carrier passenger enplanements in domestic and international service. 2) Profiles of Scheduled Air Carrier Airport Operations by Equipment Type: Top 25 U.S. Airports. 3) Profile of Scheduled Air Carrier Operations by Stage Length: FAA Regions Top 100 U.S. Airports (annual). The first section of this report gives data on total scheduled air carrier aircraft operations by trip length, by hour of the day for the top 100 airports in U.S. and D.C. The second section shows the same information on the top 100 airports for each of the 11 FAA regions. 4) Profiles of Scheduled Air Carrier Passenger Traffic: Top 100 U.S. Airports (annual). Annual report on number of passengers arriving and departing on scheduled commercial planes at the top 100 U.S. airports, by hour. Airports were ranked by total domestic and international air carrier passengers enplaned. Schedule data derived from the Reuben H. Donnelley Official Airline Guide; passenger data derived from CAB files. Contains information, one table and one chart for each airport, in alphabetical order. Table (and chart) show total U.S. scheduled first class, coach, and non-revenue passenger enplanements and deplanements; and estimate of aggregate foreign flag, commuter and intrastate carrier passenger, scheduled carrier departure and arrival operations, top 100 U.S. airports (annual, before 1976 semiannual). Report on number of airplanes scheduled to arrive and depart on commercial routes at each of the top 100 U.S. airports, by hour. Airport selections are based on enplanements. Schedule data derived from Reuben H. Donnelley Official Airline Guide. Contains introduction, one table and two charts, repeated for each airport. Table and charts show scheduled aircraft arrivals and departures by type of air carrier (domestic trunk, local service, international, air taxi, and cargo) hourly.

Organizational Element - FAA

Title - Crashworthiness Analysis with Emphasis on the Fire Hazard: U.S. and Selected Foreign Turbine Aircraft Accidents - 1964-1974

Brief Description - An analysis of 382 impact survivable/substantial damage turbine aircraft accidents and incidents which occurred during the 11-year period from 1964 through 1974 was performed as part of an overall study of the interrelationship of aircraft crashworthiness. Analysis indicated that 94.9 percent of the fatalities in worldwide U.S. air carrier impact survivable accidents resulted from accidents where fire occurred. Fire and its effects were estimated to be the cause of: 1) four percent of the fatalities, 2) fatal injuries to 23.3 percent of the occupants in survivable/fatal accidents, and 3) a reduction in survivability from 65.2 percent to 41.9 percent, of the occupants in survivable/fatal accidents. The status of FAA crashworthiness R&D programs directed toward the development of aircraft fire protective measures is described to focus on efforts being taken to reduce the future hazard.

Organizational Element - Information and Statistics Division

Title - Current Aviation Statistics: Airport, Air Carrier Fleet, Air Traffic Activity, Aircraft Industry, Airmen, and Appropriations

Brief Description - Tabular data are provided on the following topics: Airport, Air Carrier Fleet, Air Traffic Activity, Aircraft Industry, Airmen.

Organizational Element - FAA

Title - FAA Information Source Guide

Brief Description - The guide provides identification of information categories and the designated office of primary interest (OPI) that is responsible for developing, maintaining, and releasing the information. It also points to an organizational element of FAA to obtain assistance. Major information categories are: accident/incident/violation; accounting and audit; air agency; aircraft; airmen; airports; airspace; aviation activity; aviation forecast; FAA aircraft management, facilities, medical research, R&D project management.

Organizational Element - Office of Management Systems

Title - General Aviation Activity Survey (CAP)

Brief Description - Report presenting data on General Aviation Flying, including aircraft use and ownership, characteristics of flights, pilot certificates, and airport traffic. Data are from interviews with pilots and counts of aircraft operations at seventy-one towered and 174 non-towered airports during two days. Contents: narrative and methodology, with twenty-seven tables; eight appendix tables and facsimiles or survey forms. General Aviation Activity Survey is conducted every three years by the Civil Air Patrol for the FAA. Tables: Kinds of flying are personal, business, executive, commuter air carrier, air taxi, instructional, aerial application, industrial, and other. Aircraft types are single- and multi-engine piston, turboprop, turbojet, and rotorcraft. Flight plans are visual flight rules, or instrument flight rules. Sources of aircraft are rent, flying club, owner, and other. Types of pilot certificate are student, private, commercial, airline transport, rotorcraft only, and glider only.

Organizational Element - Office of Management Systems

Title - FAA Statistical Handbook of Aviation

Brief Description - This report covers statistical data, including the Federal Aviation Administration, the National Airspace System airports, airport activity, U.S. Civil Air Carrier fleet, U.S. Civil Air Carrier operating data, airmen, U.S. registered aircraft, aeronautical production and exports, aircraft accidents, and a glossary of the terms used in this publication.

Organizational Element - Office of Management Systems

Title - Commuter Air Carrier Operations as of 1975

Brief Description - This report presents data received from commuter air carrier operators who reported activity data to the Civil Aeronautics Board during the quarter ending September 30, 1975. Tables have been prepared from extractions reported on CAB form 298-C (Schedule A-1). Report of aircraft operated, and CAB form 298-C (Schedule T-2) report of flights operated. Included are data for the FAA regions on the number of operators, type and number of aircraft operated, number of flights performed, and available passenger and crew.

Organizational Element - Office of the Secretary TAD-25

Title - Air Industry Data Base System

Brief Description - The data, available in machine readable form, provide a record for each flight segment of every commercially scheduled airline flight. They describe the origination and destination terminals, detail the aircraft configuration, and utilization of the aircraft, (i.e.: number of passengers and amount of cargo carried). The system provides the basis for generating machine readable reports on activities between city pairs by frequency of flight, load factors, and number of people traveling.

Organizational Element - FAA

Title - Cater Data - EWR, JFK, LGA, 1972

Brief Description - Specific data for three airports including flight ID; arrival/departure times; weather record instrument record; sky cover; IFR or VFR etc. 1972.

Organizational Element - Flight Standard Service Division

Title - FAA Aircraft Management System

Brief Description - This information is used to furnish comparative statistics in key areas of the FAA Aircraft Program to assist in attaining the most effective utilization of resources. Information is derived from information furnished to the Aircraft Programs Division, ASF-700, by users of FAA owned and/or operated aircraft. Information includes aircraft type, number, location, and mission assignment, operating and maintenance cost; aircraft program data on flight inspection, airspace and procedures program; aircraft maintenance, utilization, and availability; and aviation fuel consumption. Principal reports include: Aircraft Fleet Inventory and Aircraft Program Data "Feedback".

Organizational Element - Flight Standard Service Division

Title - FAA Aircraft Information System

Brief Description - This information source is to provide management with statistical and operational information by the characteristics, ownership, and operation of aircraft comprising the U.S. Civil Aircraft Fleet. Information from this source also supports aviation safety analysis. Information is derived from external sources -- aircraft owners, manufacturers, operators, banks -- and internal sources -- FAA Flight Standard Inspectors and individuals designated by the FAA to perform certain (inspection and maintenance) functions. This source contains information about aircraft ownership, liens and leases; type action and surveillance; engines, propellers, and other aviation appliances/components; and types and categories of aircraft operations. Regularly published reports include Aircraft Registry -- bound volumes, microfiche or machine readable, Type Certification Data Sheets, Airworthiness Directive, Type Certificate and Supplemental, Type Certificate Holders, Census of U.S. Civil Aircraft, and FAA Statistical Handbook of Aviation.

Organizational Element - Contact National Technical Information Service, Computer Products Office

Title - Navigational Aids (NAVAID).

Brief Description - The file, electronic navigation aid data, is used in the National Airspace System in terms of type, location, freqs. and other related data to be depicted on aeronautical charts and publications. Generally, the area of coverage is that shown by charts produced under FAA specifications which include the U.S., its possessions, and bordering areas of Canada and Mexico.

Organizational Element - Office of Management Systems

Title - General Aviation and Avionics Survey

Brief Description This report presents the results and description of the 1980 General Aviation Activity and Avionics Survey. The survey was conducted during 1981 by the FAA to obtain information on the activity and avionics of the U.S. registered general aviation aircraft fleet, the dominant component of civil aviation in the U.S. The survey was based on a statistically selected sample of about 14.0 percent of the general aviation fleet and a response rate of 65 percent. Survey results are based upon responses but are expanded upward to represent the total population. Survey results revealed that during 1980 an estimated 41.0 million hours of flying time were logged by the 211,045 active general aviation aircraft in the U.S. fleet, yielding a mean annual flight time per aircraft of 190.5 hours. The active aircraft represented about 83 percent of the registered general aviation fleet. The report contains breakdowns of these and other statistics by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use. Also included are fuel consumption, lifetime airframe hours, avionics, and engine hour estimates.

Organizational Element - Office of Management Systems

Title - Census of U.S. Civil Aircraft, 1964-Present

Brief Description - Summarizes and analyzes annually all civil aircraft registered with FAA as of December 31, by type, manufacturer and model, state, county, and other characteristics. Data include detailed tabulations for (1) registered and eligible air carrier aircraft, (2) eligible general aviation aircraft, and (3) ten-year forecasts of aircraft counts. In addition, there are two master tabulations -- (1) total eligible and ineligible aircraft by manufacturer and (2) eligible civil aircraft by type, by state, and by county. Several graphs showing trends in aircraft counts are also included. Supersedes Statistical Study of U.S. Civil Aircraft, and U.S. Active Aircraft by State and County.

Organizational Element - FAA, AFS-580

Title - Aircraft Utilization and Propulsion Reliability Report

Brief Description - For turbine, turboprop and reciprocating engines, the charts show the aircraft manufacturing model, engine model, fleet aircraft and engine time, daily utilization hours, inspection period, and engine shutdowns.

Organizational Element - FAA, Data Services Division, AAC-342

Title - Catalog Master record File FAA/DF-74/002

Brief Description - The catalog master record file accommodates eight different directories. Those directories are: air taxi operators, pilot flight and ground schools, repair stations, aviation maintenance technical schools, parachute lofts, inspection authorization, designated mechanic examiner, and parachute rigger examiner.

Organizational Element - Data Services Division

Title - Airmen Certificate Data, Updated Monthly

Brief Description - This information area is to provide management and operational information relative to certificated airmen. Information from this source also supports aviation safety analysis. Information resulting from the airmen certification process is obtained from the individual's certificate application. Surveillance data on airmen and operations are obtained by the local district office during the course of inspections and investigations. Information deals with the operation and performance of certificated airmen -- pilots, other flight crew members, instructors, mechanics, parachute riggers, control tower operators, and dispatchers. It includes accident involvement violations, and written and practical examination results. Principal reports are: Airmen Directory (hardcopy and machine-readable certification information) FAA Statistical Handbook of Aviation U.S. Civil Airmen Statistics, and Listings of Designated Examiners (hardcopy).



Organizational Element - Data Services Division

Title - Aircraft Registration Master File

Brief Description - The file contains a listing of all civil aircraft registered in the United States. Information given includes data on the aircraft, the engine, the registrant, the base airport, the airworthiness, operation, use and avionics equipment capability of the aircraft. Source documents: Federal Aviation Administration aircraft registration forms. Printout available at twenty-five cents per page from FAA, Flight Standards Technical Division, Aircraft Registration Branch, P.O. Box 25082, Oklahoma City, Oklahoma 73125 (Attn. AAV-250).

Organizational Element - Data Services Division

Title - Aircraft Monthly Supplemental File, Updated Monthly

Brief Description - A supplemental file to the aircraft registration master file is available which contains only the transactions (additions, changes, and cancellations) for a specific month. Only most recent file is available. Source documents: Federal Aviation Administration Aircraft Registrations Forms.

Organizational Element - U.S. Department of Transportation

Title - Aircraft Type Certificate Data Sheet and Specifications

Brief Description - Former title: Aircraft Specifications. Includes an alphabetical index and individual specifications for all aircraft, of which there are more than fifty currently in service in the three weight groups, and a condensed aircraft listing of specifications pertaining to older aircraft models of which not more than fifty aircraft are still in service.

Organizational Element - U.S. Department of Transportation, AAC-340

Title - United States Civil Aircraft Register (1963 - Present)

Brief Description - Register represents all registered U.S. civil aircraft either for which a completed aircraft registration eligibility form has been submitted or for which new registration has been affected.

Organizational Element - Office of Management Systems

Title - Military Air Traffic Activity Report, 1975

Brief Description - Annual report on military air traffic activity for individual air force bases, army airfields, and Naval aeronautical facilities, by type of activity, type of operation, and locations.

Organizational Element - Air Traffic Service, Flight Information Division, National Flight Data Center

Title - Agency Airport Data System File FAA/DF-74/001

Brief Description - This information identifies Federal involvement in the identification and planning of a National System of Airports (a component of the National Aviation System; support, primarily through grants-in-aid, for airport system and master planning, airport development and operations; airport ground safety (including the administration of the Airport Certification Program for airports served by air carrier certificated by the CAB); and assurance of compliance by recipients of Federal airport assistance with conditions of that assistance. Information is derived from both internal and external sources. Basic data on airport physical characteristics (a prime source for NFDC data base) are collected by FAA personnel and mailed in by airport management. The National Airport System Plan Data, a responsibility of FAA field offices, is derived in large measure from airport management, planning agencies, aviation sources (e.g., air carriers) and others. The planning and development grant data are product sponsor submissions and self-maintained material supplemented by FAA inspections, reviews, and audits. Compliance data are derived from grant files followed by information obtained by visits, correspondence, and phone calls. Airport Certification data are, first submitted by applicant airports, verified, and supplemented by FAA visits. Included is information about airport location and physical characteristics; services; airport activity (for airports in National Airport System Plan (NASP); planning data (also those in NASP); environmental impact statements and assessment reports to support certain airport planning and development; airport design and construction standards; records on all airport grant projects and distance guidance; airport certification standards and guidance; data on status of certification compliance including reports of violation, guidance and information on the bird strike program; sanitary landfills; crash/fire/rescue equipment; and other airport safety matters. Principal reports include: Annual Report of Operations Under the Airport and Airway Development Act, National Airport System Plan (NASP), advisory circulars, and Bird Strike Report, and Airport Master Record.

Organizational Element - Aeronautical Center, Aeromedical Certification Branch

Title - Aeromedical Certification Statistical Handbook

Brief Description - This information source disseminates results or findings of aeromedical research conducted, or contracted for, by the FAA to interested parties in the aviation and aviation medicine communities. Information is derived from FAA Forms 1750-1 which are used for initiating, completing, and terminating research tasks, and FAA Form 9950-1, Research Task Quarterly Reports. These reports are prepared by researchers at the Civil Aeromedical Institute, FAA, or by individuals or groups with which the FAA contracts. This source contains information in the following tasks: Aeromedical factors in systems and operations, aircrew and passenger protection, personnel performance and efficiency, and aeromedical factors in flight management. Normal end products of FAA aeromedical research are project reports, advisory circulars (issued by the agency especially to affected user groups), Office of Aviation Medicine reports (available through NTIS), Federal Aviation Regulations, FAA directives, and/or publication in the open scientific literature.

Organizational Element - Operations Division

Title - FAA Airport Master Record (FAA Form 5010-1)

Brief Description - 1) Activity data includes the annual estimated number of local and itinerant general aviation operations, estimated annual air taxi operations, estimated annual military operations, and the number of based general aviation aircraft (single-engine, multi-engine, helicopters, seaplanes). 2) Airport data. Describes the physical characteristics of each airport, heliport, seaplane base, and STOL port; and any statistics resulting from the compilation of these data. 3) Facility records. Contains information describing the physical characteristics of all landing facilities (airports, heliports, seaplane bases and STOL ports). 4) Inspections. (Certification, compliance, facility data). The actual performance of an annual on-site airport inspection by a representative of the FAA Airports Program Field Office to obtain information for publication on the airport master record. 5) Land Facilities Data. Describes the physical characteristics of each airport, heliport, seaplane base, and STOL port; and any statistics resulting from the compilation of these data. 6) Locations/addresses. (airport, heliport, seaplane base, and STOL port); i.e., latitude, longitude, and distance and direction from the airport to its associated city. It also provides the name and mailing address of the owner and/or the manager. 7) Seadrome/seaplane base data. Describes the physical characteristics of seaplane bases and any statistics resulting from the compilation of this information.

Organizational Element - U.S. Department of Transportation

Title - Aircraft Landing Facilities Register Gains in 1975

Brief Description - Annual release presenting data on the number of active U.S. airports, heliports, STOL ports, and seaplane bases, by state and outlying area. Shows public or private ownership, length of longest runway, presence of lighting and paved facilities, and abandonments. Contents: Summary (2p.); seven tables (7p.); listed below; and listing, by state and city, of airports with runways of 10,000 feet or more (2p.) Data is later included in the airport section of the FAA Statistical Handbook of Aviation. Tables: (all tables show data by state, D.C., Puerto Rico, Virgin Islands, and U.S. possessions in the South Pacific. Ownership of public or private). Table 1 -- U.S. civil and joint-use airports, heliports, STOL ports, and seaplane bases on record with FAA, by length of longest landing area. 2 -- U.S. civil and joint-use airports, heliports, STOL ports, and seaplane bases by ownership and usage (open or closed to public). 3-6 -- Privately and publicly owned U.S. civil and joint-use airports, heliports, and STOL port, (lighted and by runway length). 7 -- U.S. civil and joint-use airports, heliports, STOL ports and seaplane bases reported abandoned.

Organizational Element - U.S. Department of Transportation

Title - Location Identifiers

Brief Description - Lists location identifiers (3-letter code, suggesting whenever possible, the location name that it represents) for the U.S. and its possessions, and indicates, the U.S. international place name abbreviations (4-letter code used in international communications). Each issue supersedes previous edition.

Organizational Element - System Development Division, Airport Systems Branch

Title - Simulation Methods for Airport Facilities

Brief Description - The most realistic method of quantitatively approaching airport landside traffic problems appears to be computer simulation of airport landside traffic flows. This paper describes how the simulation of the landside portion of an airport complex can be used to represent or model the airport landside system to accurately determine the flow and holding capacity and the associated delays of the airport landside. A review of existing computer simulation models indicated that the Bechtel and TAMS models are most suitable for this purpose. They can produce the required distributions or delay, queue lengths, and occupancies for the boundaries specified. The major adaptation that would appear necessary to complete the landside analysis capability would include a model of the curbside as a server of finite capacity rather than representing the time spent at curbside as a dwell time. Proceedings of a conference held in Tampa, Florida, April 28 -May 2, 1975, and sponsored by the Transportation Systems Center and Federal Aviation Administration, U.S. Department of Transportation.

Organizational Element - Information Operations Branch

Title - Accident, Incident, Violation Information

Brief Description - This information is used to identify and monitor airmen involved in accidents and/or airmen who have violated the Federal Air Regulations, to analyze facts surrounding accidents and incidents to determine whether or not rules have been violated, and to support aviation safety analysis. Information is obtained from FAA inspectors, pilots and other crew members, ground crews, passengers, and witnesses. Information in this category describes the conditions surrounding the accident, incident, or violation. This includes the circumstances, causes, malfunctions, mechanical failures, deviations from established procedures, injuries, and principals involved (pilots). No statistical incident information is available; single incident reports are produced for public/FAA use when requested. Preliminary FAA accident and violation data (statistical and case records) are available for internal Administration planning purposes only.

Organizational Element - FAA

Title - Spatial Disorientation in General Aviation

Brief Description - By William R. Kirkham et al., report on the number of general aviation accidents caused by pilot misjudgment of flight motion or position (spatial disorientation), 1970-75. Data are from National Transportation Safety Board computerized files of accident reports. Includes six tables showing fatal and nonfatal accidents in which spatial disorientation was cited as a cause or factor, by aircraft type; and number of fatal weather-related accidents with spatial disorientation as a cause or factor, by pilot age and experience, and by weather and flight characteristics.

Organizational Element - Office of Aviation Medicine Federal Aviation Administration

Title - 1975 Accident Experience of Civilian Pilots with Static Physical Defects (Aug 1977)

Brief Description - The 1974 aircraft accident experience of civilian pilots with eight selected static physical defects has been examined and reported previously. Three categories -- blindness or absence of either eye, deficient color vision with a waiver, and deficient distance vision -- had significantly more accidents than were expected on the basis of observed-to-expected ratios. The 1975 accident data have now been examined. Again, the same three groups were found to have significantly more than their expected number of accidents. This year, the reported recent and total flying times for all airmen with these defects were determined and accident rates were calculated. When the accident experience of airmen with any of these three static defects was compared with the active airmen population accident experience per unit of recent and cumulative exposures, the rates for airmen with blindness or absence of an eye were still found to be significantly higher. Rates for airmen with color vision defects and a waiver were somewhat higher, but of marginal significance. However, the rates for those with defective distance vision, other than blindness or absence of an eye, were similar, and the difference was not significant. Only one of the FAA accident reports that were reviewed related to the pilot's physical defect.

Organizational Element - U.S. Department of Transportation

Title - Airmen's Information Manual

Brief Description - Superseded Airmen's Guide, Directory of Airports and Seaplane Bases, and Flight Information Manual. Issued in the following parts: Part 1) Basic Flight Manual and ATC Procedures (Quarterly). Part 2) Airport Directory (semi-annual). Part 3) Operational Data (Every 38 Days). Subscription includes Part 3A. Part 3A) Notice to Airmen (biweekly). Subscription included with part 3. Part 4) Graphic Notices and Supplemental Data. (semiannual).

Organizational Element - Data Services Division

Title - Airmen Directory File 1973

Brief Description - The Airmen Directory File, prepared semiannually, gives residence, class of medical certificate and class of airmen certificate for each certified airman who has been issued a valid medical certificate within the past twenty-five months. Source documents; Federal Aviation Administration Airmen Medical Certificates and Airmen Certificates.



Organizational Element - Office of Management Systems

Title - Aviation Activity Information

Brief Description - Aviation activity information is used for planning, budgeting, and staffing, support for agency programs and for statistical publications. Input includes monthly activity reports from each FAA facility; annual aircraft registrations; and Civil Aeronautics Board, Immigration and Naturalization Service, and FAA survey data. Air traffic activity data are collected from FAA Air Route Traffic Control Centers, towers, and light service stations on a monthly basis by facility and geographic locations. This includes data such as airport operations and instrument operations at towers, departures and aircraft handled by FAA Air Route Traffic Control Centers and aircraft contacted, pilot briefs, and flight plans originated for FAA Flight Service Stations. These are collected monthly, and annual summaries are published in FAA publications. Selected aircraft activity statistics include an annual survey of aircraft owners from the survey data and the aircraft registry. Statistical data on total registered aircraft, active aircraft, aircraft by base airport, aircraft make and model, and type of aircraft such as fixed-wing piston engine are collected, tabulated, and published annually. Enplaned passenger data reflect passengers enplaned at U.S. airports by certificated route air carriers, supplemental air carriers, foreign flag air carriers, commuter air carriers, and air taxi and commercial operators. The data are updated annually. Data are available on machine-readable magnetic tape; detailed computer printouts are maintained either on hard copy or microfiche; summary statistics are published in the following FAA publications: Air Traffic Activity, Military Air Traffic Activity, FAA Statistical Handbook of Aviation, Census of U.S. Civil Aircraft, Airport Activity Statistics of Certificated Route Air Carriers, Commuter Air Carriers Operator (as of September of each year), and U.S. Civil Airmen Statistics.

Organizational Element - Office of Management Systems

Title - FAA Air Traffic Activity. Fiscal Years 1972 and 1973

Brief Description - File is composed of terminal and en route data on the air traffic activity of the federal airways system, as reported by FAA-operated Air Traffic Control Towers, Air Route Traffic Control Centers, Flight Service Stations and Approach Control Facilities.

Organizational Element - Office of Management Systems

Title - Current Aviation Statistics: Air Traffic Activity, FY 75 and 76

Brief Description - This report provides advance summary data on various aspects of FAA regulated aviation activity at FAA facilities, which will be covered later in regular FAA publications. These Series were formerly titled "Aviation Statistics, Advance Data," and show the following measures (total and annual percent change) by category (air carrier, air taxi, general aviation, and military): A. Aircraft handled, departures and arrivals. B. Total, itinerant, and local operations; instrument operations; aircraft contacted, flight plans originated, airport advisories, and pilot briefs.

Organizational Element - Office of Management Systems

Title - Airport Activity Statistics of Certificated Route Air Carriers, 1962 - Present

Brief Description - Semiannual report presenting detailed data on the volume of revenue passenger, freight, express, and mail traffic carried by U.S. certificated route air carriers for each airport and individual airline; and total departures by airport, airline, and aircraft model operated. Carrier groups are truck, local service, helicopter, intra-Alaska, intra-Hawaii, all cargo, and other. Aircraft departures are shown for total performed, total scheduled, and scheduled and completed. Enplaned revenue tons are shown for freight, express, U.S. mail, and foreign mail. Types of service are scheduled, nonscheduled and total. Operation types are domestic, international, and total. Summary of aircraft departures, enplaned revenue passengers, and enplaned revenue tons of cargo and mail by type of operation, by type of services at large air traffic hubs (and percent of all U.S. enplanements); all services at medium air traffic hubs (and percent of all U.S. enplanements), and small air traffic hubs (and percent of all U.S. enplanements).

Organizational Element - FAA Air Traffic Service

Title - ATC Fact Book

Brief Description - Contains: Number of major aeronautical facilities, mileage of federal airways, resume of terminal facilities, terminal facilities, terminal facilities at principal airports (ATCT, CS/T, RADAR, ILS, DF), resumes of flight service station facilities and services, resumes of air route facilities, flight service facilities, NAVAIDs associated with FSS/IFSS and services; and air route facilities and services; air route long range radar facilities, centers and associated RCAG sites. Formerly issued on an irregular basis, September 30, 1962-1975.

Organizational Element - Flight Standards Technical Division, FAA Aeronautical Center

Title - FAA Air Agency Administration

Brief Description - This information is used to identify the various aviation related schools, repair stations, and commercial operators that are certificated by FAA. The information is obtained from the individual application for the certificate. This information describes non-airperson certificate holders including air taxi/commercial operators, aviation maintenance technical school, flight ground and pilot schools, parachute lofts repair stations, aircraft dispatcher schools, and flight engineer schools. The information includes the certificate holding agency's name and business address, certificate number, and specialized ratings. Principal output includes various computer listings and various advisory circulars (140 series).

Organizational Element - FAA Associate Administrator for Aviation Standards

Title - FAA Aviation Standards Information Manual

Brief Description - Semiannual report on flight standards service certification, inspection, and investigation activities, FY76. Includes data on air carrier and airmen certificated, aircraft production, and active aircraft. Report covers staffing and program activities for 3 divisions: Engineering and manufacturing, air carrier, and general aviation. Summary table: (1-2) Flight standards service 6 operations and staffing OBY program and region. (3) Aviation universe data (active pilots, airmen, aircraft, airports, schools, repair stations, certificates, and accidents). (4) Authorized FS regulatory inspectors and engineers. Engineering and manufacturing. (5) Staffing (by region). (6) Flight standards: manufacturers under or subject to FAA QASAR audits, domestic and foreign. (7) Flight standards: Manufacturers and suppliers under FAA surveillance inspections. (8) Civil aircraft production, 1954-75. (9) Work program and activity summary (by region). Air carriers. (10) Field staffing, (by region). (11) Air carriers fleet (by aircraft type and make). (12) Air carrier flight hours (by type of aircraft). (13) Accidents (number and rate). (14-15) Air carrier operators certificates (type, number, and operators, by region). (16-18) Programs and activities: Operation, maintenance, and avionics; (includes hazardous material inspections and system worthiness analysis; by activity and region). General aviation. (19) Field staffing, (by region). (20) Certificated repair stations and authorized ratings, by region. (21) Active airman certificates held and issuances (pilot, nonpilot, flight instructor, instrument ratings). (22) Active aircraft (by type). (23) Accidents (hours flown, total accidents, fatal accidents, rates, and total fatalities, (24-26) Programs and activities: Operations, maintenance, and avionics (includes hazardous materials inspection and system worthiness) analysis (by region).

Organizational Element - National Technical Information Service

Title - FAA Aviation Forecasts - Fiscal Years 1982 - 1993

Brief Description - This report contains the fiscal year 1982 to 1993 Federal Aviation Administration (FAA) forecasts of aviation activity at FAA facilities. These include airports with FAA Control Towers, Air Route Traffic Control Centers, and Flight Service Stations. Detailed forecasts were made of the four major users of the National Aviation System: Air carriers, air taxi/commuters, general aviation, and the military. The forecasts have been prepared to meet the budget and planning needs of the constituent units of the FAA and to provide information that can be used by state and local authorities, by the aviation industry, and the general public.

Organizational Element - U.S. Department of Transportation

Title - Explosions Aboard Aircraft

Brief Description - Semiannual tabulation of data on explosions aboard aircraft, 1949 - present. Contains an extended list showing date, location, circumstances, number of persons killed and injured, airline involved, type of aircraft, country of registry, and scheduled flight plan, for each incident; and five summary tables.

## Organizational Element - Airway Facilities Service Maintenance Program Division

### Title - FAA Facilities Information

Brief Description - This information source is used to produce data required by FAA management to plan, construct, identify, manage, and evaluate the facilities owned and/or maintained by the FAA to support the National Airspace System. Information is derived from internal elements of the agency data to support budgeting and planning for facility construction. Configuration information, as well as data about frequencies and power levels, are maintained in headquarters. Information on the physical status of construction projects and performance of operating facilities is generated by region and sector field offices. Statistical data concerning facilities are produced in the regions and headquarters. Information is about facility configuration (including frequencies and power levels, cost estimates of construction and installation to support budget submissions, physical status of facility installation project, and facility data (identification, location, performance, ownership, power type, and maintenance logs). Most data are updated at least monthly, although high priority performance data are reported daily. Major output reports include: Frequency Master File (monthly, hardcopy), Physical Status Report (weekly, hardcopy and tape), Facility Master File (monthly, hardcopy and tape), Facility and Service Outage Reports (monthly, hardcopy and tape), and Line Performance Reports (monthly, hardcopy and tape).

## Organizational Element - Office of Aviation Policy and Plans

### Title - Aviation Forecast Information System

Brief Description - The FAA publishes annually a 12-year national forecast of aviation activity of which the latest is entitled, Aviation Forecasts 1980-81. Included are forecasts for enplaned passengers, revenue passenger miles, cargo, air carrier and general aviation fleet and activity levels, engine and aircraft production, and total air carrier, general aviation, and military activity at FAA-operated air traffic control facilities. This publication supports internal planning and budgeting activities as well as advising the public of current and expected trends. In addition to these regularly published series, the Aviation Forecast Branch also produces special industry and forecast studies for use in policy formulation. Data are derived from: FAA Facility Reports of Activity, FAA Airmen and Aircraft Registry, CAB Airline Reports, census reports, special surveys, and Economic Forecasting services. The system contains: Aircraft Operations Counts, daily by Facility, by Category of Flying; Instrument Operations Control Daily by Facility, by Category of Flying; Instrument Flight Rule Aircraft Handled, Monthly by Facility by Category of Flying; Flight Services, Monthly by Facility, by Category of User; Airmen Annual, by Type Certificate, by Age, by Sex, by Address, Aircraft Annual by Make-Model, Age, and Based Airport; Passenger and Operational Statistics by Airline, Airport Origin; and Destination, Fare Basis, Financial Statistics; Aircraft and Engine Airport, Exports and Imports Monthly by Make and Model; Cost and Operational Statistics for Noncommercial Aviation; and Total Economic and Demographic Data by County. Annual forecast documents and special studies are the principal system outputs.

Organizational Element - FAA

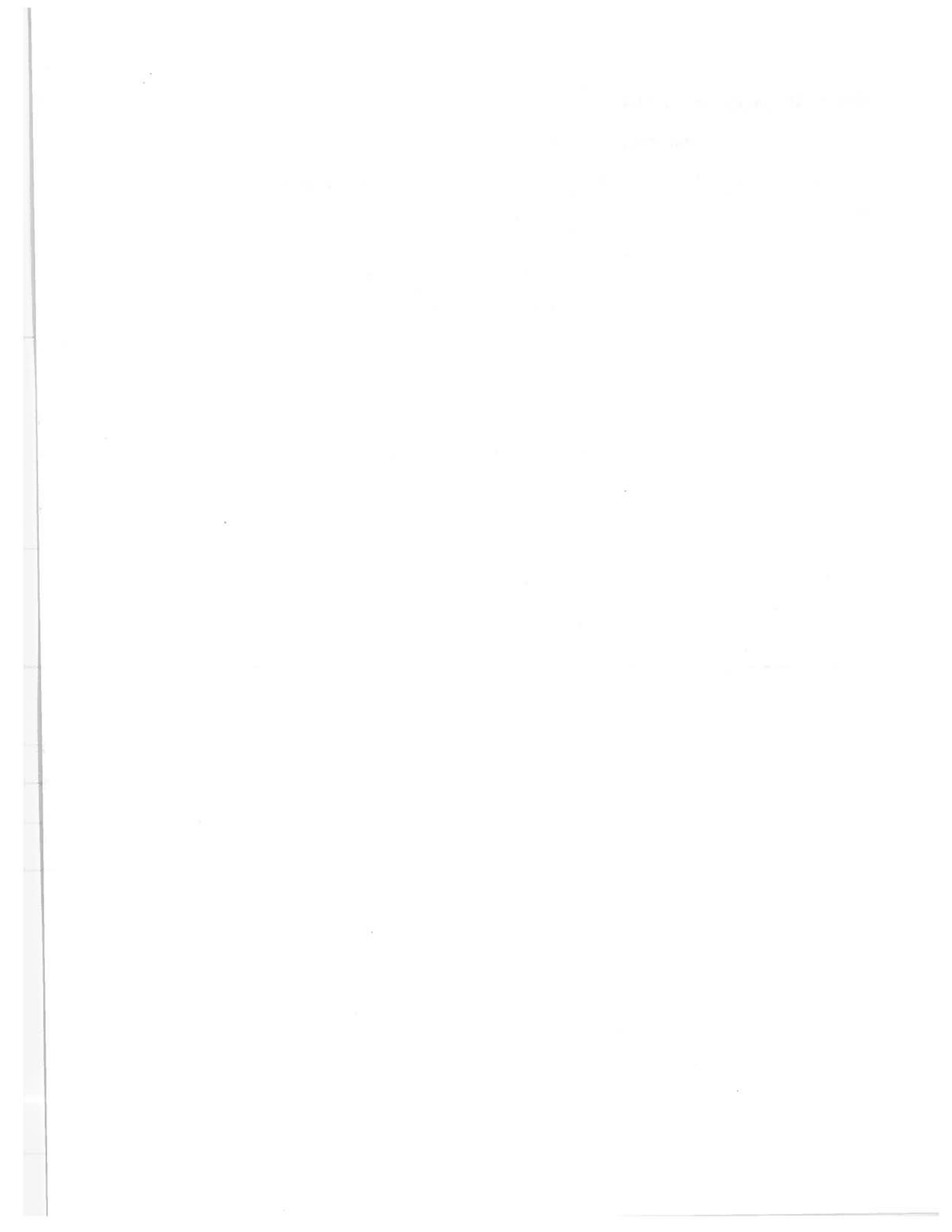
Title - Airport Evolution Study (May 1977)

Brief Description - Volume 1: Executive summary, Volume 2: Airport evolution, Vol 3: Aviation High Growth 60's. Report, in three volumes, identifying stages of airport development from inception to abandonment, with focus on the causes of the high growth rate in aviation activity and airport development that occurred during the 1960's. The report develops an analytical model which yields historical relationships among variables affecting airport abandonments and development of new airports. Model is also used to estimate historical airport activity data not otherwise available. Historical relationships were used in analyzing the development of 31 case study airports for 1960-75, and can be used to forecast abandonments and demand for new airports. Report volumes include charts and tables throughout showing the following data, mostly for the 1960s early 1970s.

Organizational Element - U.S. Department of Transportation

Title - Semiannual Report to Congress on the Effectiveness of the Civil Aviation Security Program (1974 - Present)

Brief Description - Semiannual report to Congress on the civil aviation security program and the operation of airport passenger and baggage screening procedures. Procedures were instituted to prevent aircraft hijacking and related crimes, and are administered through FAA Civil Aviation Security Service. Contains narrative report with text statistics on hijackings, passengers screened, weapons and dangerous articles detected, arrests, explosions and bomb threats, and international security measures and fifteen charts and tables, as follows: 1-4. Hijackings and hijacking attempts. 5-6. Bomb threats against airports and aircraft. 7-8. Characteristics of weapons detection devices and x-ray screening procedures, and number of units. 9. Airline passenger screening results. 10-14. Survey and training activities. 15. Compliance and enforcement actions.





# INVENTORY OF DOT STATISTICAL INFORMATION SYSTEMS

## Inventory of Federal Highway Administration

Organizational Element - Highway Statistics Division

Title - Highway Statistics

Brief Description - Annual report presenting data in table form on motor fuel sales and consumption, motor fuel tax rates and revenue, vehicle registrations and revenue, driver licenses in force by age and sex, state and local highway finance receipts and disbursements, federal highway finance, public road mileage, federal-aid mileage, functional classification mileage and highway usage and performance.

Organizational Element - Highway Statistics Division

Title - Highway Statistics System

Brief Description - These are the only reports to the federal government of state data concerning numbers and characteristics of registered vehicles, drivers licenses, motor fuel consumed, tax and other highway related revenue, highway bonding, toll financing, roadway extent and characteristics, expenditures by type of governmental highway activity, highway travel extent and characteristics, construction costs, and materials in accordance with 23 U.S.C. 307 and 402. Principal reports include state highway income and expenditures, local road and street finance reports, state motor fuel tax collections, state motor vehicle registrations, travel and accident reports, mileage reports, truck weight reports, and speed trend reports. Principal reports are highway statistics, national truck characteristics, interstate system traveled-way traffic map, and special hard copy reports as required.

Organizational Element - FHWA, U.S. DOT

Title - Cost of Owning and Operating an Automobile, (1970 - Present)

Brief Description - Periodic report, primarily narrative, with 5 detailed tables showing the estimated component and total costs of owning and operating large, intermediate, compact, and subcompact size cars, per year and per mile, from 1 to 12 years. Data are shown for depreciation, repairs and maintenance, tire replacement, accessories, gasoline and oil, insurance, parking and tolls, and state and federal taxes and fees.

Organizational Element - U.S. Federal Highway Administration

Title - Driver Licenses

Brief Description - Biennial report presenting data on the number, age and sex distributions of licensed drivers in the fifty states and D.C. area. Content consists of one chart and seven tables. Information includes ratio of licensed drivers to population (and driving age population).

Organizational Element - FHWA (HHP-41)

Title - Selected Highway Statistics and Charts (1972-1981)

Brief Description - Includes charts and tables on expenditures for roads and streets, total and by state. Total road and street mileage, highway receipts and disbursements, motor vehicle registrations, driver licenses, and motor fuel. Also contains estimates of next year's vehicle registrations, driver licensing and motor fuel use.

Organizational Element - FHWA

Title - Monthly Motor Gasoline Reported By States

Brief Description - Monthly report presenting data from taxation reports on gasoline consumption by state. Data are current to 2-4 months preceding issue date, as state reports become available. Contents: Brief summary with chart showing daily average consumption (U.S), one table showing monthly gasoline consumption for last four months and cumulative for the calendar year, and percent change from same period of the previous year.

Organizational Element - FHWA

Title - Driver License Administration Requirements and Fees: Status as of Jan. 1 each year

Brief Description - Data on the administrative requirements and qualifications necessary to obtain drivers licenses in the fifty states, D.C. and Canada. Contains narrative summary and ten detailed tables showing the following data, by state: A. Administration, terms, and age requirements for regular licenses; requirements for classified licenses; and restrictions and qualifications for juveniles. B. Driver training requirement; license examination and renewal; drivers license reciprocity; items included on license; and nondriver identification card requirements. C. License fees; license suspension, revocation, and reinstatement provisions; and forms of applicants' names used on driver license and nondriver identification card.

Organizational Element - FHWA

Title - Road User and Property Taxes on Selected Motor Vehicles (For Selected Years Between 1950 and 1982)

Brief Description - Provides basic information from each state on road-user taxes and property taxes levied on a selected group of vehicles. The intent is to furnish the means to measure and compare the annual payments that would be made for each of fifteen carefully selected vehicles in each state. The taxation information included for the vehicles, which range from a motorcycle to an 80,000-pound truck trailer combination, is contained in the following: 1. Tables that show highway user and total taxes paid to each state, 2. Bar charts in which states are ranked by highway user and total taxes paid, 3. Maps that show ranges of highway user and total taxes paid to each state.

Organizational Element - Highway Statistics Division, Office of Highway Planning

Title - 1969 Nationwide Personal Transportation Survey

Brief Description - The Nationwide Personal Transportation Survey was designed to obtain up-to-date information on national patterns of travel. Earlier surveys, limited primarily to automobile and truck travel, were conducted in a number of states between 1930 and 1940 and, more recently, between 1951 and 1959. In April 1961, a survey was conducted to determine on a national basis characteristics of travel, ownership and use of automobiles. Data for the Nationwide Personal Transportation Survey were collected in 1969-1970 by the Bureau of the Census of the Department of Commerce for the Federal Highway Administration of the Department of Transportation. There are eleven reports:

- (1) Automobile Occupancy
- (2) Annual Miles of Automobile Travel
- (3) Seasonal Variations of Automobile Trips and Travel
- (4) Transportation Characteristics of School Children
- (5) Availability of Public Transportation and Shopping Characteristics of SMSA Households
- (6) Characteristics of Licensed Drivers
- (7) Household Travel in the United States
- (8) Home-to-Work Trips and Travel
- (9) Mode of Transportation and Personal Characteristics of Tripmakers
- (10) Purpose of Automobile Trips and Travel
- (11) Automobile Ownership

Organizational Element - Highway Statistics Division, Office of Highway Planning

Title - 1977 Nationwide Personal Transportation Survey

Brief Description - The 1977 NPTS was designed to update the earlier study done in 1969 to provide comprehensive data on travel and transportation patterns in the United States. The 1977 study was designed to collect information on all trips taken during a designated 24-hour period (travel day) and some additional details on trips of 75 miles or more during the preceding 14-day period (travel period), along with related socio-economic characteristics of the tripmaker. Ten reports have been published. These include:

- (1) Characteristics of Licensed Drivers and Their Travel
- (2) Household Vehicle Ownership
- (3) Purposes of Vehicle Trips and Travel
- (4) Home-to-Work Trips and Travel
- (5) Household Vehicle Utilization
- (6) Vehicle Occupancy
- (7) Life Cycle of Travel by the American Family
- (8) Urban/Rural Split of Travel
- (9) Household Travel
- (10) Estimates of Variances

Organizational Element - FHWA

Title - Traffic Volume Trends

Brief Description - Monthly pamphlet presenting data on traffic volume for city and rural roads and streets, with comparisons for current month and previous month compared to same period last year. Issues generally include three charts; and four tables, listed below. Tables: 1. Summary by road class (rural arterial, other rural, urban, and all roads and by geographic area -- shows miles for all classes of roads). 2. Changes on rural arterial roads, by state (current and past month). 3. Estimated individual monthly motor vehicle travel in the U.S. (for current and previous year). 4. Estimated cumulative monthly motor vehicle travel in the U.S. (for current and previous year).

Organizational Element - FHWA

Title - Interstate System Traveled Way Traffic Map

Brief Description - Annual report presenting data on average daily vehicle miles of traffic on the national interstate highway system, by rural and urban location, access control, and completeness on highway to interstate standards; on state Highway systems and for sections between selected major cities. Contents: Brief introduction, with 1 chart showing traffic growth; map of interstate system showing average daily vehicle miles of traffic on rural sections of the system between selected major cities. Latest map issued - 1979. May be resumed in the future.

Organizational Element - FHWA

Title - Traffic Speed Trends (1942-Present)

Brief Description - Beginning in fiscal year 1976, Traffic Speed Trends was replaced by a Quarterly Speed Monitoring Summary. This summary reports compliance with the 55 mph national speed limit and is an in-house report with a limited number of copies available to the public on request. Speeds are measured only on roads with a 55 mph limit and are not broken down by vehicle type. From 1976 to 1979, only free-flowing vehicle speeds were measured from 1980 to the present all vehicle speeds were measured. The report contains a brief narrative and tables showing average, median, and 85th percentile speeds and percent of vehicles exceeding 55, 60, and 65 mph by state and highway category. The publication Highway Statistics contains tables providing an annual summary of vehicle speeds.

Organizational Element - Highway Statistics Division, Office of Highway Planning

Title - National Truck Characteristics Report, 1975-1979

Brief Description - Report based on data collected during the truck weight study by state highway agencies in cooperation with the Federal Highway Administration. This report contains tables and charts using the classification and weight data for the period 1975 through 1979. Included are various tables and charts by vehicle type, highway system related to state, load status, fuel type, body type, class of operation, commodity carried, axle spacings, gross weight, average weight, carried loads and equivalents for rigid and flexible pavement design.

Organizational Element - Urban Planning and Transportation Management Division

Title - Los Angeles, CA -- Santa Monica Freeway Study

Brief Description - Santa Monica Freeway Study on transportation attitudes and behavior before and after the implementation of a preferential lane for busses and carpools. Demographic data, transit information, attitudes, and trip summaries on various modes, including carpooling and responses to proposed transit plans.

Organizational Element - Office of Highway Safety

Title - Fatal and Injury Accident Rates on Federal-Aid and Other Highway Systems, (1967-Present)

Brief Description - Reports from 1967 to present show data on the number and rate of fatal and non-fatal injury accidents, fatalities, and injuries; by state and for each type of federal-aid and non-federal-aid highway and road. Data are compiled from reports by the 50 states, the District of Columbia, Puerto Rico, and the U.S. territories. Contains brief explanatory notes and tables showing the following data: (a) Fatal and non-fatal injury accidents, fatalities and non-fatally injured persons, and rates; highway and vehicle miles, by highway system, rural-urban and total; one table. (b) Fatal and non-fatal injury accidents, fatalities and non-fatally injured persons, and rates, highway and vehicle-miles, by highway system, rural-urban, and state; twenty-eight tables. (c) Fatal and non-fatally injured pedestrians, and rates; highway and vehicle-miles, by state; one table. (d) Fatal and non-fatal injury accidents, fatalities and non-fatal injuries, and rates; highway and vehicle miles, by rural-urban and total for the Commonwealth of Puerto Rico and U.S. Territories; one table.

Organizational Element - Urban Planning Division and Transportation Management

Title - Urban Transportation Planning Battery Computer Programs in Executable Binary

Brief Description - The 360/370 Urban Transportation Planning Battery, "Plan AC2," is composed of sixty-three separate programs, intended to provide to users of the "Urban Transportation Planning System (UTPS)", supported jointly by FHWA and UMTA, supplementary utility functions. Also included are programs for dealing with data formats no longer supported by UTPS. Together with UTPS the package is aimed at both long range and short range planning, and seeks to provide guides for the establishment of the most efficient system of movement of both people and goods consistent with the goals and objectives of state and urban communities. Major problems considered include traffic assignment, trip generation, trip distribution, modal splits, link analysis, capacity computation, traffic system management, spiderweb networks and small area analysis. Basically, the system consists of utility programs, model generation programs and special analysis programs. Publication; user documentation - FHWA computer programs for urban transportation planning, April 1983; general information - computer programs for urban transportation planning, planpac/backpac, April 1977.

Organizational Element - Urban Planning and Transportation Management Division

Title - Baltimore, Maryland Travel Demand Data Set

Brief Description - Baltimore travel demand data set contains information needed to calibrate models in trip generation, mode choice, and route choice. Also contains detailed socio-demographic information about responding families. Appropriate factors to expand the data are also included.



Organizational Element - Program Management Division, Highway Statistics Division

Title - Highway Performance Monitoring System

Brief Description - Each state's HPMS dataset includes information on each highway in the state, together with additional data on physical characteristics and performance for sample roadway sections within the state. The sample data are statistically valid for each functional classification for rural, small urban, and urbanized areas. Principal reports are the Biennial Report to Congress and the annual "Highway Statistics" publications. The data are also used to respond to questions raised by DOT, other government agencies, and the private sector on the nation's highway system. HPMS is the only available mileage-based dataset, providing data to meet the day-to-day needs of FHWA.

Organizational Element - Office of Management Systems

Title - National Highway Needs

Brief Description - This system was designed to inform the Congress of the extent, condition, and performance of the existing highway network and future highway needs and to provide information for developing policy on the direction of the Federal Highway Program and for assessing the impacts of different highway investment programs. The National Highway Needs Data System describes and characterizes the National Highway System except for local roads and streets. Highway mileage is shown by its functional classification (arterial or collector) and location -- urban or rural. Number of lanes, lane width, access control, and other geometric data are given, as is structural information such as pavement surface type and conditions; traffic conditions such as congestion factors and percent involving trucks, information on structures such as bridges; current and forecasted travel by highway system and area; and the cost and location of current and future needed highway improvements. Among the several computer models employed in this system are: National Highway Network Model -- Assesses impact of changes in socioeconomic intercity highways); Pardee Model -- Assesses environmental impact of national highway investment strategies;) Highway Needs Sensitivity Models -- tests how highway needs are affected by such variables as performance standards and travel; Highway Needs Simulation Model -- Simulate highway investment requirements for given costs, performance standards, and travel forecasts; and Harris Mode -- Evaluates regional economic and environmental impacts of alternative highway systems. Principal output includes Biennial Highway Needs Reports to Congress.

Organizational Element - FHWA

Title - Safety Aspects of the National 55 MPH Speed Limit

Brief Description - Report assessing the effects of the 55 mph speed limit on highway, pedestrian injury and fatality rates. Based on analysis of 1968-75 data for seventeen states. Compares actual 1974 rates to rates projected on the basis of pre-speed limit trends.

Organizational Element - Traffic Systems Division

Title - Los Angeles Data Tapes (December 1976)

Brief Description - Freeway incident and non-incident data have been collected from the San Diego, Santa Monica, and harbor freeways in Los Angeles, CA and stored on magnetic computer tapes. The data were collected from vehicle presence sensors imbedded in the freeways which are polled by a computer 15 times per second so that the data may be used in a variety of different applications, the time actuation of the individual wheels crossing the sensors are recorded on the tapes. Specific information on how the data is stored may be found in FHWA report FHWA-RD-78-130.

Organizational Element - FHWA

Title - Federal Aid Highway Relocation Assistance and Pavement Statistics

Brief Description - Annual report for each fiscal year on the number of residential households displaced identified by racial categories and owner/tenant status and the number of individuals in the displaced households; the number and amount of residential relocation claims paid by owner/tenant status and type of payments; and, the number and amount of moving claims paid to residence, farms, businesses, and nonprofit organizations by type of moving option selected by displacee. All data relate to displacement caused by federal-aid highway construction. Data are presented by state in sixteen tables. Each table consists of five parts identifying data by four types of highway systems (interstate-urban, interstate-rural, other urban, other rural) and national totals for each table.

Organizational Element - Technical Services Division

Title - Automobile Accident, Crash Characteristics, and Tape Recorded Data System

Brief Description - The system has over 200 different files of accident information. There are sample (percentage) accident files; accident files by county, state, and turnpike; and multidisciplinary accident data files. A file can contain a record for each vehicle, each occupant, and each injury in an accident case. There are approximately 600 data elements for each of the four million cases. Some of the major data elements are location codes; dates of accident; precrash, crash, and postcrash circumstances; severity of injuries; and occupant seating positions. Some data elements on the tape recorded data files are lateral and longitudinal forces, brake pressure, and speedometer reading. A statistical package activated over an interactive terminal is used to retrieve information from the files producing one-time and periodic reports in varying formats, degrees, and complexity.

Organizational Element - FHWA

Title - Vehicle Accidents in Highway Work Zones

Brief Description - Vehicle Accidents in Highway Work Zones. Bradley T. Hargroves, and Michael R. Martin. Virginia Highway and Transportation Research Council, Charlottesville. December 80, 52 P., VHTRC-80-R37, FHWA/RD080/063 PB81-183436 Price code: PC A04/MF A01. The objective of the study was to determine the magnitude and characteristics of safety problems, in terms of reported accidents, that are associated with moving vehicular traffic around and through highway work zones. This was accomplished by examining the 2,127 reported work zone accidents that occurred in 1977 in Virginia. Examined were work zone accidents, general and specific locations of the accidents, time of the accidents, roadway and environmental factors. Comparisons were made of the work zone accident characteristics.

Organizational Element - FHWA

Title - Coal Haul Roads Study

Brief Description - Report on estimates of needs for improvement to coal haul roads. Report prepared by Wilbur Smith and Associates, and includes tables on mileage, condition, traffic, and investment needs of coal haul roads by State.

Organizational Element - FHWA

Title - Forecasting Highway Construction Costs

Brief Description - Report on data sources and methods for developing national and regional econometric models to forecast highway construction cost. Report prepared by Data Resources, Inc., and includes tables on price indices by component and region, estimating equations and variables, and data sources for variables.

Organizational Element - FHWA

Title - Highway Costs Allocation Study

Brief Description - Report on cost responsibilities and user charges by vehicle class. Final report and working papers prepared by FHWA. Include tables on user charges and cost responsibilities by vehicle class, equation of the cost assignment models, VMT by vehicle class, and vehicle fleet populations.

Organizational Element - Bureau of Motor Carrier Safety

Title - Hazardous Material Shipper Census/Identification

Brief Description - This system contains data, such as name, address and types of hazardous materials shipped, on approximately 21,000 shippers of hazardous materials. The Federal Hazardous Materials Regulations 49 CFR 170-179 are applicable to shippers of hazardous materials.

Organizational Element - Bureau of Motor Carrier Safety

Title - Accident Report Summary

Brief Description - This system enables on-line entry and retrieval of motor carrier accident data obtained from approximately 35,000 reports of accidents filed with BMCS annually by motor carriers subject to BMCS jurisdiction.

Organizational Element - Bureau of Motor Carrier Safety

Title - BMCS Roadcheck Compliance Summary

Brief Description - The Federal Motor Carrier Safety Regulations (49 CFR 385-399), applicable to interstate motor carrier operations, and the Federal Hazardous Materials Regulations (49 CFR 170-179) apply to both shippers and carriers of hazardous materials. The system collects data from the MCS-63 Driver-Vehicle Examination Reports and produces a master file for display of a summary of a given motor carrier's driver/vehicle inspection experience, usually by calendar year, while in the "display" mode of the motor carrier census system.

Organizational Element - FHWA

Title - Safety Comparisons of Doubles vs. Tractor - Semitrailer Operation (Nov. 77)

Brief Description - Report on accident and casualty incidence among carriers using truck-semitrailers and "doubles": (full trailers attached to truck-semitrailers) on open highway operations, 1969-76. Data are from 1974 and 1977 surveys of eight carriers. Includes one summary table and eight detailed tables showing number of vehicles and miles operated; number of accidents, injuries, fatalities, and rates; and amount of property damage by carrier (identified by letter only) for doubles and truck-semitrailers; 1969-76.

Organizational Element - FHWA

Title - Federal-Aid Construction Bid Price Data Report

Brief Description - The report is used to develop unit bid prices in roadway excavation, surfacing and structures, to develop a composite index and price trends for the above elements, as well as developing quantities used in the highway construction contract.

Organizational Element - FHWA

Title - Analysis of Cargo Tank Integrity in Rollovers

Brief Description - Report on the adequacy of federal government structural design specification for tank truck trailers used in transporting hazardous substances. Based on an analysis of 1973-76 tank truck accident data, and on results of overturn tests of two tank trailers. Accident data shows: Tank trailers accidents, cargo, and resulting damage in selected states; new tank trailer delivered; and state rankings by number and percent of tank trailer overturns, selected years 1971-76. Also, data on tank trailer accidents and overturns, casualties, and property damage, by driver and trip characteristics; vehicle, cargo and road type; state and type of area; time of accident; light and weather conditions; accident type and effect on cargo, 1973-75.

Organizational Element - FHWA

Title - Quarterly Report on the Federal-Aid Highway

Brief Description - Quarterly release presenting data, by state, on allocations and completion status for highways and projects financed under the federal-aid highway program. Report is issued approximately two months after end of quarter covered. Contents: Narrative highlights with a map of the interstate and defense highways, and four tables.

Organizational Element - FHWA

Title - Highway Construction Usage Factors for Construction Materials

Brief Description - Annual four-part series on quantities of materials used on contract highway constructions per million dollars of expenditures, by type of highway and by state, 1975-77. Also includes data on total highway construction cost, 1973-75. Part 1: Aggregates. Part 2: Cement, bitumens, concrete pipe and clay pipe. Part 3: Lumber, timber piling, petroleum products, and explosive. Part 4: Steel.

Organizational Element - FHWA

Title - Forest Highway System, Report of Operation

Brief Description - Report on the status and operation of the forest highway system. System consists of designated forest roads that provides access to national forest or serve as arteries through the forests. Shows national forest acreage and highway system funding, mileage by road class, and estimated total cost of grading and surfacing projects initiated by state/federal source of funds. Data are shown for each state and Puerto Rico, with totals for the eastern and western regions of the U.S. Report was issued annually, 1952-73. Issued again in 1978 (covers 1973-76). FHWA plans to update periodically.



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## INVENTORY OF DOT STATISTICAL INFORMATION SYSTEMS

### Inventory of Federal Railroad Administration

#### Organizational Element - FRA

Title - Annual Report by the President to the Congress on the Administration of the Federal Railroad Safety Act of 1970.

Brief Description - The report includes 1) A thorough statistical compilation of accidents and casualties by cause. 2) A list of federal railroad safety rules, regulations, orders, and standards in effect or established. 3) A summary of each waiver granted. 4) An evaluation of the degree of observance of applicable railroad safety rules, etc. 5) A summary of outstanding problems confronting the administration of federal safety rules, etc, in order of priority. 6) An analysis and evaluation of research and related activities completed, and technological progress achieved. 7) A list including a brief statement of the issues, of completed or pending judicial actions, for the enforcement of federal safety rules, etc. 8) The extent to which technical and consumer oriented information was disseminated. 9) A compilation of certifications filed by state agencies which are in effect, and of certifications rejected, along with the reasons for rejection. 10) A compilation of agreements entered into with state agencies which are in effect, and of those terminated by the Secretary with reasons for termination.

#### Organizational Element - FRA

Title - Evaluation of Effectiveness of United States Railway Association and of Consolidated Rail Corporation

Brief Description - The U.S. Railway Association (USRA) completed a staff analysis of alternatives of the Consolidated Rail Corporation (Conrail) and participated in studies regarding the feasibility of transferring USRA functions. Conrail made progress toward self-sufficiency and signed an amended financing agreement with USRA.

#### Organizational Element - FRA

Title - Activities of National Railroad Passenger Corporation (Amtrak)

Brief Description - The Secretary of Transportation shall include in his annual report to the Congress a report on the effectiveness of the Rail Passenger Service Act of 1970, as amended, in meeting the requirements of a balanced national transportation system, together with any legislative recommendations. This report includes information on policy, legislation, financial plans, and railway operations with respect to the National Railroad Passenger Corporation (Amtrak).

Organizational Element - FRA

Title - NECIP Joint Annual Report

Brief Description - The Secretary of Transportation and the National Railroad Passenger Corporation shall submit to the Congress annual reports on progress achieved and work in progress and planned (including the need for further improvements) with respect to the completion of the Northeast Corridor Improvement Program including an up-to-date accounting of intercity passenger ridership, revenues from such ridership, expenses, and on-time dependability of intercity passenger trains in the Northeast Corridor.

Organizational Element - Office of Federal Assistance

Title - Annual Report on Railroad Financial Assistance under Title V of the Railroad Revitalization and Regulatory Reform Act of 1976 and Section 3 of the Emergency Rail Services Act of 1970

Brief Description - Information on financial condition and operations of the Railroad Rehabilitation and Improvement Fund and Loan Guarantee Fund; assistance provided to railroad industry under Title V of the Railroad Revitalization and Regulatory Reform Act of 1976 -- reasons for the assistance -- and way in which assistance contributed to a safe and efficient transportation system; financial condition of railroads that have outstanding loans under Emergency Rail Services Act of 1970.

Organizational Element - Office of Policy

Title - Activities with Respect to the Sale of Conrail Properties

Brief Description - The report will detail the Secretary's activities pursuant to Section 405.

Organizational Element - Office of Policy

Title - Inability to Sell the U.S. Interest in the Common Stock of Conrail

Brief Description - This report is a notification that the Secretary is unable to sell the U.S. interest in the Common Stock of Conrail.

Organizational Element - FRA, Executive Director

Title - Joint DOT State Report on Transfer of the Alaska Railroad to the State

Brief Description - The joint report will include an agreement between the state and the Secretary of Transportation on those assets and liabilities of the Alaska Railroad that will be transferred to the state and other details of the transfer.

Organizational Element - FRA

Title - Preliminary Report of Railroad Accidents/Incidents and Resulting Casualties

Brief Description - Release showing persons killed and injured in train accidents, as reported by all railroads. Contains one table with data for current quarter and year to date for present and previous year, on the following items: A. Train accidents and accident per million train miles. B. Persons killed and injured in train and non-train accidents; employees on duty, passengers, employees not on duty, non-trespassers, contractor employees, and trespassers, and casualty rated. C. Highway grade-crossing casualties and rates.

Organizational Element - Office of Safety

Title - Oscillating Lights

Brief Description - The Secretary shall, within sixty days after the date of enactment of the Federal Railroad Safety Authorization Act of 1982, report to the Congress on whether to issue rules, regulations, orders, and standards to require that the leading car of any railroad train in operation after July 1, 1983, be equipped with an acceptable form of mounted oscillating light.

Organizational Element - Office of Safety

Title - Systems Safety Plan

Brief Description - This report was prepared by the Federal Railroad Administration (FRA) which has responsibility for railroad safety laws within the Department of Transportation (DOT). The report describes goals for improved railroad safety and the approach FRA has adopted to meet those goals. In preparing this report, FRA examined each of the major categories of rail accidents to develop a plan for systemwide application to improve railroad safety. The thesis of the Systems Safety Plan is that safety is best enhanced when government and industry resources are combined in a cooperative rather than an adversary spirit. The Plan established priorities for applying FRA, state, and industry resources in the joint effort to reduce rail safety accidents.

Organizational Element - Office of Safety

Title - Training Railroad Personnel in Evacuation Procedures

Brief Description - The Secretary of Transportation shall, before March 1, 1983, conduct a study of the training of onboard operating and service railroad personnel in evacuation procedures and the use of emergency equipment. The Secretary shall consider as part of such a study the federal regulations and procedures applicable to other modes of transportation.

Organizational Element - Office of Policy

Title - Approved Conrail Freight Transfer Agreements

Brief Description - This report should contain a copy of the Freight Transfer Agreement Approved by the Secretary.

Organizational Element - Accounting System

Title - Department of Transportation Act of 1966; P.L. 89-670

Brief Description - This system is designed to enable the Federal Railroad Administration (FRA) to control and manage appropriated funds and revolving funds, to provide financial information to FRA management and to budget officials of the Office of the Secretary, and to satisfy the reporting requirements of OMB and the Treasury Department. The information content of the system consists of the input listed above controlled by a manually maintained general ledger and books of original entry and supported by an automated allotment ledger. The Alaska Railroad accounting system is separate from the FRA headquarters system. Accounting in CONUS is centralized and covers the activities of five regions and the Transportation Test Center at Pueblo, CO. The principal subject matter is accounting, and the information is updated daily. Input includes obligations, disbursements, accruals, undelivered orders, receivables, payables, payroll, travel, property, loans, grants, collections, miscellaneous receipts, reimbursements, refunds, loan guarantees, transfers, warrants allotment, apportionments, and advances. The major source of input is FRA; payroll data are furnished by the Federal Highway Administration; appropriation warrants are from Treasury; and apportionments are from OMB. Internal reports are prepared monthly as ADP printouts listing by appropriation breakouts by major and subobject class, programs, cost centers, and fund administrators. External reports submitted monthly include: Report of Budget Execution, Report of Obligations and Statement of Transactions; quarterly: Report of Selected Balances for Stating Budget Results on an Accrual Basis (BA-6727 and BA 6728); annually: Statement of Unexpected Balances of Appropriations and Funds, Statement of Financial Condition and Report of Advances and Report of Federal Outlays. External reports are prepared manually. There is no query capability in the ADP system.

Organizational Element - DOT

Title - Quarterly Report to Congress

Brief Description - This report presents quarterly information on the status of the Urban Mass Transportation Fund, as follows: 1) obligations, commitments, and reservations by state, designated recipient, and applicant; 2) the balance of unobligated, uncommitted, and unreserved apportionments; 3) the balance of unobligated, uncommitted, and unreserved sums available for expenditure at the discretion of the Secretary; 4) a listing of letters of intent issued; and 5) a status report on all outstanding letters of intent. No financial assistance shall be provided under the Urban Mass Transportation Act of 1964 unless the Housing and Home Finance Administrator finds that such assistance is essential to a program for a unified or coordinated urban mass transportation system as part of planned development of an urban area.

## Organizational Element - FRA

### Title - Grant-in-Aid for Railroad Safety

Brief Description - By authority of the Federal Railroad Safety Act of 1970 and the Accident Reports Act, as amended, railroads are required to report to the Federal Railroad Administration (FRA) the occupational illnesses of employees, damage to railroad equipment and structures, and injuries to persons resulting from the operation of a railroad. The information is used to identify railroad safety problems and support regulatory changes. The principal data elements of the system are railroad codes, casualty information, damage costs, location of accident, train speed, weather, and grade crossing information. Data are received from railroad on the standard FRA Accident Reporting Form monthly, with a summary report at the end of the year. Several periodic output reports are generated including: Accident Bulletin (annually); Rail Highway Grade-Crossing Accidents (annually); Preliminary Report of Railroad Accidents/Incidents and Resulting Casualties (monthly); and Summary of Accident/Incidents Reported by all Line-Haul and Switching and Terminal Railroad Companies (monthly).

## Organizational Element - Railroad Research Information Service (RRIS)

### Title - General Railroad Research and Development

Brief Description - Primary objectives of the RRIS are: 1) to maintain a comprehensive and rapidly accessible source of information about ongoing and completed railroad-related research; 2) to disseminate new references as they become available, including non-U.S. railroad information; and 3) to enhance the development and use of repositories of source materials. Coverage includes main-line railroads, industrial railroads, rapid transit, light rail, and various advanced systems such as tracked air cushion vehicles, magnetically levitated vehicles, and personal rapid transit systems. Areas of coverage include right-of-way; track structure; train-track dynamics; propulsion; braking, signal, and communication systems; vehicle design; human factors; grade crossings; environmental effects; energy; safety; high-speed transportation; electrification; management systems; railroad economics; freight transport demand; freight operations; logistics; passenger demand and operations; industry structure; Government policy and regulation; and documentation and bibliographies. Coverage extends back to the 1930's but is comprehensive from 1972 to date. The file is constantly expanded and updated. Federal agencies such as FRA, UMTA, TSC, NTIS, DA, SSIE, and others provide information on completed and/or ongoing work. RRIS has exchange or input arrangements with Engineering Index, International Union of Railways (Europe), British Railways, Japanese National Railways, Transportation Development Agency (Canada), Association of American Railroads, and other agencies. RRIS publishes semiannual Railroad Research Bulletins which cover accessions for six-months intervals. Special publications are also prepared, some only for agency distribution. Printouts of batchmode and on-line retrievals on special topics are available from RRIS and on-line data bases on request. In addition to such hardcopy products, on-line retrieval and tape output may be available. The RRIS was terminated in 1982.



## Organizational Element - Track Inspection System

### Title - Safety Inspection and Administration

Brief Description - This information system is to monitor track conditions on the U.S. railroad. System data elements include, but are not limited to, FRA inspector code, fiscal year, region code, railroad, railroad subdivision violation, location (city and state), track number, milepost of inspection, and defect code. Data rate received from both FRA field personnel and state track inspectors, detailing items inspected and defects found, if any. Data are received on a continuing basis from the FRA field and state track inspectors and are updated monthly. System output includes the following monthly reports: Inspector Activity Report (by state, railroad, defects, or region). Uncorrected Defect Report, Violation Status Report, and Violation Settlement Report.

## Organizational Element - Federal Railroad Administration

### Title - Waybill Statistical System

Brief Description - The system provides vital information to both the railroads and their shippers for cost benefit analysis, market area analysis, and ground transportation analysis. This information about railroad activities provides to the FRA important statistics for economic impact and analysis, commodity analyses, and other areas or rail studies. The major output includes Carload Waybill Statistics Report which is published annually; input statistics for the FRA Rail Planning Model (Network Analyses); and Economic Rail Line Viability Studies. Waybill Statistics System is a one percent sample of all rail commodity movements originating and terminating in the continental U.S. Reports are updated annually. All Class I railroads are required to submit to the FRA copies of all waybills when waybill numbers end with 1 or 01. The principal data elements are serial and waybill number; number of carloads; origin and destination railroads, station, and territories; rate types, STCC, weight, and revenue; short line miles; and AAR car type. Major output is a yearly Carload Waybill Statistic Report sorted by origin/destination area displaying total carloads, tonnage, and revenue and important summary statistics of average short line miles, average carloads, average tonnage, state-to-state flows, commodity analysis, and specific railroad commodity flows. The annual carload waybill statistics report is publicly available. However, all other detailed reports must be approved by the ICC/FRA.

## Organizational Element - FRA

### Title - Rail Highway Grade Crossing Accident/Incident

Brief Description - This tape presents results from the railroad accident/incident reporting system. There are over fifty fields which include information on location, time, highway user, railroad equipment, environment (weather), train and track, crossing warning, motorist action, and highway vehicle and rail equipment property damage/casualties. Annual report is also published.



Organizational Element - Office of Management Systems

Title - Grade Crossing Inventory System (GCIS)

Brief Description - The system is to maintain a current computer file of all rail-highway crossings in the country. This includes all public and private crossings as well as grade separations. Every crossing has been assigned a unique identification number. The information is used by states and railroads to establish priorities for grade crossing improvements. The file is also used for research in the grade crossing areas. For all types of crossings, information such as identification number, railroad, railroad division, subdivision, milepost and branch, state, county, city or nearest city, street or highway, and crossing type is available. In addition, for public grade crossings, more detailed information is available. This information includes number of daily train movements, train speeds, type and number of tracks, details of crossing protection both active and passive, crossing angle, number of traffic lanes, daily highway traffic volume, pavement markings, advance warning signs, crossing surface, highway system, percentage of trucks, and other items. The system is updated continuously as updates are received. Updates to system information are furnished by states and railroads. At present the only periodic report containing system information is the annual publication, Railroad-Highway Crossing Accidents. System output formats are printed reports, magnetic tapes, or cards. Query capability is very flexible.

Organizational Element - Office of Management Systems

Title - Railroad Accident/Incident Reporting System

Brief Description - The principal data are railroad codes, casualty information, damage costs, location of accident, train speed, weather, and grade crossing information. Accident bulletin: A single bulletin number assigned to each year since 1922, gives brief tables on casualties to persons of all classes of passengers, to employees, to trespassers; highway grade-crossing accidents, and train accidents. Also, further breakdown of accidents by individual railway. Preliminary report of railroad accident/incidents and resulting casualties -- published 2 months after cover date. Summary of accidents/incidents reported by all line-haul switching and terminal railroad companies -- same data published six months after cover date. (Formerly Summary of Accidents Reported by Steam Railways, 1924-1966, published by I.C.C.). Rail-highway grade-crossing accidents/incidents-since 1935, gives time of accidents, type of accidents, type, kind of crossing protection, and speeds of vehicle and trains involved, weather conditions, etc.

Organizational Element - Office of Safety

Title - Railroad Employee Fatalities Investigated by the Federal Railroad Administration, 1973-Present

Brief Description - For each accident included in this report, the following information is given: Railroad, location, date, description of accident, circumstances involved in the accident, applicable rules, analysis, and cause.

Organizational Element - Office of Policy

Title - Plan for the Sale of the U.S. Interest in Common Stock of Conrail

Brief Description - The report will detail the Secretary's Plan for the sale of the U.S. interest in the Common Stock in Conrail.

Organizational Element - Federal Railroad Administration

Title - Accident Data Tapes

Brief Description - These tapes include the following information: Train code, district, road number, class of accident, damages to equipment and track, train speed, number of train cars, method of operation, kind of defect, explosives, cause of accident, day of week, hour, weather, part of train struck, crossing and operation protection, visibility, illumination, auto speed, stalled or stopped, motor carrier act, defect or negligence, trespassers killed or hurt, trainmen killed or hurt, other employees on duty killed or hurt, passengers killed or hurt. Summary report is published annually.

## INVENTORY OF DOT STATISTICAL INFORMATION SYSTEMS

### Inventory of National Highway Traffic Safety Administration

#### Organizational Element - National Center for Statistics and Analysis

##### Title - Fatal Accident Reporting System (FARS), 1979-Present

Brief Description - This system is designed to collect data for research and analysis of the accident environment. The accident environment includes information about the accident scene, all vehicles, and all persons physically involved in the accident. This information is used to identify problem areas such as conditions which are present in fatal accidents or which contribute to the occurrence of the accident. The information is also used to evaluate the effect of safety countermeasure programs and of improvements to highways. Trends over time or emerging patterns can be detected and their significance analyzed. Information on all fatal accidents occurring in the fifty states, the District of Columbia, and Puerto Rico is contained in the file. It contains about 250,000 records for approximately 40,000 fatal accidents. The file is updated monthly until it is complete. Traffic fatality estimates are published monthly and show monthly estimates for year to date, with actual FARS data for corresponding months of the previous year (began May 1978).

#### Organizational Element - National Center for Statistics and Analysis

##### Title - Fact Book: Statistical Information on Highways

Brief Description - Annual compilation of data on highway safety programs, traffic accidents and rates, and selected highway traffic indicators, including annual miles of travel and vehicle and driver registrations. Part I is the highlight section on vehicle miles of travel, driver registrations, vehicle registrations of various years, fatalities and accidents, pedestrian fatalities by age, costs of safety programs, police man-hour rates, traffic citations, drinking driver arrests, motor vehicle inspection failure rates, etc. Part II is the statistical section giving motor vehicle miles traveled, drivers, licenses in force, by age and sex, new car registrations by weight and number of cylinders, average speed, by type of vehicle and highway, auto trip characteristics, distribution of accident rates by circumstances, speed and age of driver, various type of injuries and fatalities by cause, etc. Statistics are given in a time series.

#### Organizational Element - Technical Reference Library, NAD-52

##### Title - Vehicle in use Data Processing System

Brief Description - This system was designed to evaluate factors which influence vehicle condition such as owner income, topography, climate, usage, make, model, year and mileage of vehicle. It supports the design of inspection criteria, procedures, equipment to support State Inspection Programs, and it supports LSP highway safety standard number one. Information includes brake, tire, steering, and suspension defect frequencies as a function of vehicle, demographic, and usage factors. Output: A program exists for handling data to produce cross tabulations, matrices, summaries, and analysis in the form of hardcopy reports on request.

Organizational Element - Office of Alcohol Countermeasures, Traffic Safety Programs

Title - Evaluation Data System for Office of Alcohol Countermeasures

Brief Description - This system is designed to collect statistical data concerning alcohol-related highway incidents and alcohol safety action demonstration projects. The ASAP Evaluation Data System is a longitudinal data base; it records the same data elements over time. Baseline measures are observations of these data elements obtained prior to program implementation. They are used for comparison with observations obtained during the programs operational period. There are two main files -- the financial file and the non-financial file. Each record in the file presents up to seven years of quarterly data for one cell of a table. There are 2800 records in the financial file and 57,400 records in the non-financial file. Data are reported on a quarterly basis, but the submissions are spread uniformly across the quarter. Retrievals from the file average about 10 per week, and subsets of the file are accessible on-line. Some special reports in this project are: 1. A computer archive of ASPA roadside breath-testing surveys, 1970-1974 (PB242074) by Highway Safety Research Institute, Michigan University, Ann Arbor, (Available from NTIS), Jan 1975. 2. Alcohol safety action projects: Evaluation of operations, a series of reports evaluating the projects which usually cover one city or county, by NHTSA.

Organizational Element - Technical Reference Library, NAD-52

Title - School Bus Vehicle Safety Report (1977)

Brief Description - Report on School Bus Accident Rates, casualties, and accident cause, mostly 1960-75. Contents: A. School bus operations, showing pupils, buses, and total operating costs, selected years 1921-75; and student transport mode, by distance from school, 1972. B. Accident occurrence showing bus miles, accidents, fatalities, and injuries; and comparison of casualty rates for school buses and all motor vehicles; selected years 1960-75. C. Accident and injury causes, showing detailed driver error or vehicle defect accident cause, and casualties cross-tabulated by body part, source of injury, and type of accident, selected years 1970-75. D. Description of safety improvement programs: conclusions; recommendations.

Organizational Element - Technical Reference Library, NAD-52

Title - NHTSA Forecast: A 1990 Traffic Safety Outlook

Brief Description - Annual report presenting projections to 1990 of traffic accidents and fatalities, for use in traffic safety planning. Projected motor vehicle deaths and rates are shown for six combinations of changes in per capita alcohol consumption, mix of vehicle types and sizes, and speed limits. Projections are based on estimated normal increase in population, licensed drivers, vehicles and vehicle miles of travel, accident trends, etc.

Organizational Element - Technical Reference Library, NAD-52

Title - Uniform Tire Quality Grading Data Management System (UTQG)

Brief Description - The system encompasses one regulation with six major areas of responsibility, i.e., treadwear, traction, temperature resistance, tire inventory, test center schedules, and quality control. Testing under the regulation results in about 1,530 tests annually: eighty treadwear monitoring tests, 600 traction monitoring tests, 200 treadwear compliance tests, 100 traction compliance tests, fifty temperature resistance compliance tests, 250 treadwear special tests, and 250 traction special tests. The system incorporates a multiple file data base, and these files reside on two separate 3330-1 disk packs. Each of the six areas of responsibility resides in its own master file and is updated daily, weekly, or as the need arises. The files contain edit routines, sorting indexes, reformat programs, and analysis and reporting programs. As required, hardcopy plots and test results are produced. Treadwear data are recorded. Support data for both traction and treadwear are entered by hand through the terminal keyboard.

Organizational Element - Office of Vehicle Safety Compliance, Enforcement

Title - Vehicle Selection Matrix (OSE,VSM)

Brief Description - This system is designed solely to rank future selection of vehicles for compliance testing to various Federal Motor Vehicle Safety Standards as a part of the Office of Standards Enforcement Compliance Test Program. Content: Historical data are obtained from internal sources such as Research, Office of Defects Investigation, and Office of Standards Enforcement relevant to the above. Data elements vary for each of the standards considered and are taken from the MDAI variable selection list. When the NASS Program is initiated, and data will be taken from that source. Data are considered current for three years. Output quarterly: hardcopy reports consisting of vehicle priority lists and vehicle selection matrix reports are produced.

Organizational Element - Technical Reference Library, NAD-52

Title - Safety Related Recall Campaigns for Motor Vehicles and Motor Vehicle Equipment, Including Tires

Brief Description - Quarterly report on status of Safety Defect Recall Campaigns carried out by domestic and foreign manufacturers of motor vehicles and equipment. Each issue includes: A. Introduction, summary tabulation; and instructions for ordering individual campaign reports. B. List by manufacturer showing NHTSA identification number; date of company notification; make, model and model year; brief description of defect and manufacturers corrective action; number of pages on file at NHTSA; and number of vehicles recalled. C. List by manufacturer of percentage of each recall campaign completed at end of quarter. December issue is an annual summary. Beginning with issue containing data for April-June 1976, title was changed from Motor Vehicle Safety Defect Recall Campaigns. Issues covered during 1976: Jan. 1-Dec. 31, 1975; Jan. 1-Mar. 31, 1976; April 1/June 30, 1976.

Organizational Element - NHTSA

Title - Consumer Aid Series: Brakes, Tires, & Acceleration Capabilities of Passenger Cars & Motorcycles.

Brief Description - Annual series of three reports comparing safety performance capability test results of model year foreign and domestic passenger cars and motorcycles. Reports, described below, cover brakes, tire reserve load, and acceleration. Data are provided by manufacturers, and required by DOT regulations. Format of reports is as follows: Introduction and facsimile of DOT testing regulations; index by manufacturer; and two extended tables ranking auto and motorcycles, by test performance, with and without selected options. Brakes: Comparison of braking performance for passenger cars and motorcycles, annual report providing data on the 60 MPH stopping distances of model year passenger cars and motorcycles. Tires: Comparison of Tire reserve load for passenger cars annual report providing data on the minimum tire reserve loads of model year passenger cars. Acceleration and passing ability: comparison of acceleration and passing ability for passenger cars and motorcycles annual report providing data on the acceleration capabilities (feet per second ) of model year passenger cars and motorcycles.

Organizational Element - National Center for Statistics and Analysis.

Title - National Accident Sampling System

Brief Description - The National Accident Sampling System (NASS) is designed to collect and analyze data from a nationally representative sample of motor vehicle accidents. When the complete system is in operation, approximately 18,000 accidents will be selected annually by a carefully designed sample and data will be gathered by teams of accident investigators. The accident system will include passenger vehicle, truck, motorcycle, bicycle, and pedestrian involvements.

Organizational Element - Office of Defects Investigation

Title - Consumer Complaint File

Brief Description - This file lists complaints made by vehicle owners and others; it was compiled to aid the Office of Defects Investigation (ODI) personnel in researching possible safety-related defects in groups of vehicles. This file provides a list of complaints by vehicle manufacturer, make, model, and model year, with failed vehicle component and failure type. The file contains complaints received by ODI since September 1968.



# INVENTORY OF DOT STATISTICAL INFORMATION SYSTEMS

## Inventory of Urban Mass Transportation Administration

### Organizational Element - UMTA

#### Title - Service and Methods Demonstration Program

Brief Description - UMTA-sponsored demonstration projects to improve travel time, coverage, and reliability of urban transit service vehicle productivity; and service to those dependent on transit, including the handicapped. Contents: A) Summary, and narrative review of program accomplishments, plans, and major program goals; with five summary tables showing project characteristics, location, and current status. B) Appendix descriptions of seventeen individual projects with charts and tables on funding, operations, fares, and revenues, costs, passengers per hour or mile, and usually area and user demographic data. This is no longer an annual report; it is now a status report and will be updated periodically rather than annually.

### Organizational Element - UMTA

#### Title - Transportation Planners' Guide to Using the 1980 Census

Brief Description - This report was prepared to assist transportation planners in the use of the 1980 decennial Census data. It provides a basic source of reference related to data items available, forms of distribution, information on a tape file developed specifically for planning purposes, and examples of the many uses of the Census data in transportation planning. An important part of the document is related to uses of Census data for analytical and model purposes.

Chapter One serves as a summary of the information contained in Chapters Two through Six and provides information for the executive who is considering the Census data and its uses for planning.

Chapter Two describes information available and reporting mechanisms used by the Census Bureau in their normal decennial data distribution.

Chapter Three presents the content of a special Urban Transportation Planning Package which brings together, in one tape release for each metropolitan area, those data items most useful to transportation planners. This tape is not a normal Census Bureau release and must be purchased. The most important features of this package include data available on a tract or zone basis and the trip information available for the Journey-To-Work.

Chapter Four describes some data collection efforts which may be considered by the planner to supplement the Census data.

Chapters Five and Six present uses of the Census data for analysis and model-related purposes, respectively. Uses covered include assessing the current situation, evaluating trends, transit planning, accessibility analysis, locating park-and-ride lots, land use and arterial spacing considerations, providing input to planning models as well as model calibration and development.

## Organizational Element - UMTA

Title - Sourcebook on Urban Transportation Planning Methods.

Brief Description - This sourcebook is intended as a reference for the use of transportation planners in determining what publications, training courses, etc., are available from UMTA and FHWA to help solve analysis problems related to urban transportation. The sourcebook is an updated and expanded version of an earlier publication and plans are to review and redistribute it annually. Each reference cited includes a description of the material and, specifically, how to obtain it. This source book provides information in the following subject areas: UMTA/FHWA Training Courses; UTPS, PLANPAC, and Microcomputer Programs; Transportation Planning -- General; Data Collection and Inventories; Trip Generation and Distribution/Modal Split; Trip Assignment; General Demand Estimation; Environmental Impact; Land Use; Other Planning Techniques; Impacts of Rail Rapid Transit; Transportation for Elderly and Handicapped; Transit Operations Management; Transportation System Management Planning; and Energy.

## Organizational Element - UMTA

Title - Rail Transit Safety: 1981 Annual Report

Brief Description - This document is the fourth annual report on rapid rail transit safety issued by the Urban Mass Transportation Administration. The 1981 annual report is a compendium and analysis of rapid rail transit accident/incident and casualty statistics reported by the eleven rapid rail transit properties in the United States during 1981. The data used to compile this annual report has been taken from accident/incident information voluntarily submitted to the Federal Railroad Administration through its accident/incident reporting system. The eleven rapid rail authorities included in this report are: 1) BART - Bay Area Rapid Transit District; 2) CTA - Chicago Transit Authority; 3) GCRTA - Greater Cleveland Regional Transit Authority; 4) MARTA - Metropolitan Atlanta Regional Transit Authority; 5) MBTA - Massachusetts Bay Transportation Authority; 6) NYCTA - New York City Transit Authority; 7) PATCO - Port Authority Transit Corporation; 8) PATH - Port Authority Trans-Hudson Corporation; 9) SEPTA - Southeastern Pennsylvania Transportation Authority; 10) SIRTA - Staten Island Rapid Transit Operation Authority; and 11) WMATA - Washington Metropolitan Area Transit Authority. Light Rail Transit safety data is not included in this report. Safety statistics contained in previous editions of Rail Transit Safety Annual Reports have been updated to reflect additional accident and casualty data received during 1981. The third annual report is titled Rail Transit Safety 1980 Annual Report, PB 820142530, A03.

Organizational Element - Office of the Secretary

Title - Transit Operations & Planning Status Retrieval System

Brief Description - The system contains information on innovative transit services operating within urban and non-urban areas of the United States. This information includes project location, a brief project description citing major results (as available), the operating and funding agencies, project status, cost, and information source. The subfile of transit service modes and operations contains information on urban population, population density, metropolitan and regional planning organizations, transit operating agencies, primary transit modes, route miles for each mode, number of vehicles in service, and UMTA capital and technical studies grants. Information is added weekly and reviewed and/or updated quarterly.

Organizational Element - UMTA

Title - Transit Systems Material Information Bank, 1975 - Present

Brief Description - The project is developing and maintaining an information bank on the various types of structural and non-structural materials used in transit systems with respect to their flammability, smoke production, toxic gas production, and other characteristics related to fire safety. The information bank will include identification of the various types of analyses and tests by which candidate materials may be ranked according to their flammability, smoke and toxic gas production, and development of guideline specifications for materials for UMTA and the transit industry. Material specifications for transit vehicles have become increasingly important because of fires on vehicles. This project will provide technical information to establish new or improved standards for fire safety to be applied to federally funded procurement of transit vehicles. Guidelines or standards prepared under this project will be coordinated with interested and affected organizations such as the American Public Transit Association and the National Fire Protection Association.

Organizational Element - UMTA

Title - Directory of Regularly Scheduled, Fixed Route, Local Public Transportation Service. (August 1981)

Brief Description - Series of three reports presenting compilations of data on individual public transit companies and authorities serving urbanized areas, based on information provided by operators and metropolitan planning agencies. Reports cover urbanized areas with population less than 50,000, between 50,000 and 200,000 and over 200,000. Each report includes a national summary; and a detailed list, arranged by urbanized area, showing for each transit operation: A. Number of rail cars, motor buses, cable cars, trackless trolleys, and jitneys committed to transit service. B. Mailing address, public/private ownership; American Public Transit Assn. membership, and existing transit management contract with specified firms.

## Organizational Element - UMTA

Title - Supplement IV Cost Experience of Automated Guideway Transit Systems. (December 1982)

Brief Description - By the end of 1982, automated guideway transit (AGT) systems carried over 500 million passengers since their first commercial operation of the Tampa International Airport in 1971. To keep abreast of the domestic use of AGT systems in the U.S., UMTA has sponsored studies on the cost experience of selected domestic AGT systems. Presented in these documents are the capital costs, operations and maintenance (O&M) costs, and system characteristics of selected AGT systems currently operating in the U.S. Evaluation of trends and comparisons with other transportation modes are presented.

This report provides cost information about fifteen domestic AGT systems. Capital costs, in 1981 dollars, for thirteen systems. Additional information about numbers of passengers, system availability and system characteristics is also provided. The fifteen AGT systems examined in this report are: Busch Gardens, Williamsburg; Dallas-Fort Worth Airport (AIRTRANS); Duke University Medical Center; Fairlane Shipping Center; Hartsfield Atlanta International Airport; Houston Intercontinental Airport; King's Dominion Amusement Park; Miami International Airport; Minnesota Zoological Gardens; Orlando International Airport; Pearlridge Center; Seattle-Tacoma International Airport; Tampa International Airport; Walt Disney World; and Morgantown West Virginia University System.

## Organizational Element - UMTA

Title - Wheelchair Lifts on Transit Buses: Summary of U.S. Experience

Brief Description - The overall objective of this project was to develop information and guidance for the transit industry concerning wheelchair lifts on transit buses in the areas of lift procurement, testing and acceptance, training, and maintenance. The methodology for the project included a nationwide survey/inventory of lifts, the buses equipped with them, and the transit systems operating them. Based on the inventory, thirteen agencies were selected for on-site collection of data and experiences with lift performance in transit service. The project scope was limited to an examination of passive-type lifts installed in heavy duty transit buses providing fixed-route service. Seven manufacturers with passive lifts installed in heavy duty transit buses were identified and examined. This report also provides background information regarding the use of lift-equipped buses in fixed-route transit service and the types of equipment used that resulted from a number of parallel and interactive social, legislative, and technological developments that occurred in the late 1970s.

This report concludes that the assessment of passive lifts on fixed-route transit buses disclosed a wide variation in performance of the various designs and installations at the various transit systems. The report also presents significant results of the project in the form of guidelines and recommendations for the general areas of lift design and specifications, testing and acceptance procedures, procurement requirements, safety considerations, and training and operational procedures. The authors state that the overall experience with lift-equipped buses has been satisfactory.

Organizational Element - UMTA

Title - Urban Mass Transportation Abstracts (UMTA Abstracts)

Brief Description - The Urban Mass Transportation Abstracts is published bi-monthly by the Transit Research Information Center (TRIC) of the Urban Mass Transportation Administration (UMTA). It contains abstracts of the results of the Research, Development and Demonstrations, Technical Studies, and University Research projects (Sections 6, 8, and 11 of the Urban Mass Transportation Act of 1964, as amended) sponsored by UMTA. The bi-monthly abstracts are arranged into seventeen subject classifications, and within each classification, the arrangement is by title. Reports listed within the abstracts are available from the National Technical Information Service (NTIS). Order and loan information is provided at the end of each issue. Each abstract shown in this report provides information on the report title, the author(s), source of UMTA funding, date of publication, the NTIS order number, and the NTIS price code. A cumulative Retrieval Term Index will appear at the end of every third issue of the bi-monthly abstracts. In addition, the bi-monthly abstracts also include a list of recent Section 8 Technical Studies acquisitions. The Section 8 reports are arranged by states. These reports are not available from NTIS. Loan copies have been deposited with the UMTA Regional Centers. Questions and comments concerning these publications or the reports cited within them should be addressed to: U.S. Department of Transportation, Urban Mass Transportation Administration, Information Services, Room 6432, 400 Seventh Street, S.W., Washington, D.C. 20590, (202) 426-9157.

Organizational Element - UMTA

Title - Urban Mass Transportation Cumulative Bibliography, 1974-1980. Volume 1: Abstract. Volume 2: Index.

Brief Description - UMTA's annual volume, Urban Mass Transportation Abstracts, has been discontinued; it has been incorporated into the UMTRIS (Urban Mass Transportation Research Information Service) data base. UMTRIS was developed in 1981 within the National Research Council, Transportation Research Board (TRB), under contract to the Urban Mass Transportation Administration (UMTA). The UMTRIS computerized data system incorporates information on planning, designing, maintaining, operating, managing and financing all modes of public transit including bus, trolley bus, light and heavy rail, advanced guideway system, taxi and vanpool services, ferries, and local air service. The first Bibliography (in two volumes) produced by UMTRIS has been published; it contains 7064 citations and appropriate indexing for citations added to the Transportation Research Information Service (TRIS) data base between 1974 and 1980. Citations include technical reports, journal articles, handbooks, statistical sources, computer programs, and other information sources from both U.S. and international sources. Volume 1: Abstracts contain the citations arranged in twenty-eight categories. Volume 2: Index contains more than 3400 subject terms used for the indexing along with appropriate cross references to citations to Volume 1. The Bibliography (in two volumes) is titled Urban Mass Transportation Abstracts-Cumulative Bibliography 1974-1980 and has been distributed by the Transportation Research Board, 2101 Constitution Avenue, N.W., Washington, D.C. 20418.



## Organizational Element - UMTA

### Title - Urban Mass Transportation Research Information Service (UMTRIS)

Brief Description - UMTRIS (Urban Mass Transportation Research Information Service) is a computer-based information system operated by the Transportation Research Board (TRB) with financial support from the Urban Mass Transportation Administration (UMTA), U.S. Department of Transportation. UMTRIS can provide transportation administrators, operators, engineers, economists, planners, and researchers rapid access to information about ongoing and completed transit and transit-related research activities. In addition to coverage of all phases of conventional public transportation from worldwide sources, there are many references to all types of advanced guideway systems. About 2500 new citations are added to the data base annually. UMTRIS is closely associated in the National Research Council with the Highway Research Information Service (HRIS) in a coordinated data base known as the Transportation Research Information Service (TRIS), which also includes many citations for other modes such as railroads, marine, and aviation. It is possible to obtain references that cover any or all these modes in a single literature search because they are maintained in a common magnetic tape file. Information in UMTRIS covers a broad spectrum and involves the planning, financing, constructing, operating, and marketing of public transportation systems including buses, trolley buses, streetcars, light rail, rapid transit, paratransit, taxis, demand-responsive, and elderly/handicapped transport, and advanced guideway systems. Services available from UMTRIS include 1) publications, namely, abstracts of published works, and summaries of ongoing research projects; 2) online searches through DIALOG Information Services File 63; and 3) bath-mode literature searches from the UMTRIS file.

## Organizational Element - UMTA

### Title - Evaluation of the Transit Reliability Information Program (TRIP)

Brief Description - The Transit Reliability Information Program (TRIP), begun in 1979, is 1) financially supported by the Federal government, 2) designed to collect and analyze equipment reliability data on U.S. transit systems; and 3) an industry-wide program whose main thrust has been to establish a data bank (DB) for reliability related information on transit vehicles. Data are contributed voluntarily to transit properties. The main participants in the TRIP program are thirteen rail transit properties; two vehicle suppliers; The American Public Transit Association (APTA); Transportation Systems Center; and the Dynamics Research Corporation (data base manager). TRIP's goals are met when data from the central repository are used to compare equipment performance among different transit system in order to improve productivity and reduce costs at local property and industry levels. Although TRIP will include busses, this evaluation considers only the rail portion of the TRIP program. The objectives of this evaluation were to: 1) determine how well TRIP achieves its stated objectives; 2) identify the costs and benefits of the program; and 3) make recommendations for improvements. TRIP has achieved four out of seven objectives, namely: 1) a forum for focusing reliability efforts within the transit industry; 2) uniform reliability definitions for the transit industry on a working level; 3) a central repository for transit industry field failure data; and 4) distribution of TRIP data to potential users. The three unmet objectives involve the uniform analysis and comparison of reliability data among properties. Present TRIP benefits include improving internal management communications, assisting development of automated failure reporting systems, and improving informal exchanges of ideas on equipment reliability.



Organizational Element - UMTA, Office of Technical Assistance, Information Services, URT-7

Title - The Section 15 Data Base: National Urban Mass Transportation Statistics (July 1, 1978 - Present)

Brief Description - Section 15 provides for establishment by the Department of Transportation of a uniform system of transit accounts and records plus a reporting system for the collection and dissemination of public mass transportation financial and operating data by uniform categories. The Section 15 data base contains all validated information submitted by approximately 400 Section 15 reporters. Aggregate and individual agency statistics are available in the following data categories: Capital (System Summary), including assets, liabilities and capital, public assistance; Revenues (System Summary), including passenger and special transit fares, revenues from school bus service, charter service, auxiliary transportation, and nontransportation, freight traffic, taxes levied directly by transit system, federal, state and local cash grants and reimbursements, state and local special fare assistance; Expense (System Summary and by Mode), including labor, fringe benefits, service, materials and supplies, utilities, casualty and liability costs, taxes, purchased transportation by functions of vehicle operations, vehicle maintenance, nonvehicle maintenance, general administration; and Operating (by Mode), including service schedule, maintenance performance, energy consumption, transit way mileage, employee count, transit accidents, service supplied, service consumed, fleet inventory. At present, data are available for FY 1979 (transit agencies local fiscal years ending between 7/1/78 and 6/30/79), FY 1980 fiscal years ending between 7/1/79 and 6/30/80, and FY 1981 (fiscal years ending between 7/1/80 and 6/30/81). UMTA produces annual reports of the data base for each fiscal year in the National Urban Mass Transportation Statistics. These reports are compendiums of statistical tables on all phases of transit operations developed from the Section 15 data base. The FY 1979 (UMTA-MA-06-0107-81-1), FY 1980- (UMTA-MA-06-0107-82-1), and FY 1981 (UMTA-MA-06-0107-83-1) annual reports were published in May 1981, June 1982, and November 1982, respectively. The FY 1982 annual report and data base will be available in August 1983; thereafter, data for each fiscal year will be available in the spring of the following calendar year. Other outputs of the Section 15 data base include public use tapes with supporting documentation and ad hoc, customized statistical reports.

Organizational Element - Office of Safety and Security

Title - Annual Report on Rail Transit Safety

Brief Description - The rail transit safety annual report is a compendium and analysis of rail rapid transit accident/incident and casualty statistics reported by the eleven rail rapid transit properties in the United States.

THE UNIVERSITY OF CHICAGO

PHILOSOPHY DEPARTMENT

PHILOSOPHY 101

PHILOSOPHY 102

# INVENTORY OF DOT STATISTICAL INFORMATION SYSTEM

## Inventory of Saint Lawrence Seaway Development Corporation

### Organizational Element - SLSDC

#### Title - Annual Traffic Report

Brief Description - Statistical data on vessel and cargo movements through the seaway. The report is divided into four sections, showing data for the entire seaway, the Montreal to Lake Ontario section, the Welland Canal section and an historical section providing information since the seaway began operation in 1959. Statistics are reported by type of cargo, type of vessel, nationality of transits, size of vessels, direction of movement, origin and destination, selected U.S. and Canadian ports, and toll revenue. Approximately eighty pages with sixty tables.

### Organizational Element - National Technical Information Service

#### Title - U.S. Great Lakes Ports Statistics for Overseas and Canadian Waterborne Commerce

Brief Description - U.S. Census data for waterborne imports and exports for the U.S. Great Lakes Port range is statistically tabulated by port, by foreign trade area, by dollar value in short (2000 lb) and metric (2204.62 lb) tons, stating percent of total by type of vessel service. Tabulations are identical for ports and exports, and are based on calendar year totals.

### Organizational Element - SLSDC

#### Title - Seaway Regulations

Brief Description - This publication contains the rules and regulations for transit of the seaway facilities, both U.S. and Canadian portions. Specific information on definition and interpretation, condition of vessels, preclearance, security for tolls, seaway navigation, radio communications, dangerous cargo, toll assessment and payment, detention and sale, and closing procedures are included. Tables of speed, calling-in, vessel dimensions, and tariff of tolls are also listed.



# INVENTORY OF DOT STATISTICAL INFORMATION SYSTEMS

## Inventory of Maritime Administration

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Statistical Analysis of the Worlds Merchant Fleet

Brief Description - MARAD is authorized and directed since 1936 to maintain and disseminate ship characteristics data on oceangoing merchants ships of 1,000 gross tons and over that comprise the world merchant fleet. The Ship Data Systems is used in this connection to maintain and update an automated file of ship characteristics data pertaining to the U.S. - and foreign-flag fleets. Information is used to produce a wide variety of data, published and unpublished. The principal subject matter covered is merchant vessel characteristics. Data include vessel ID, vessel name, flag of registry, owner ID, type and class of vessel, net, deadweight, date constructed, and employment status.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Vessel Movement System (VMS)

Brief Description - This data base includes the following elements: The date entered or cleared the U.S. port; the number of passengers; the U.S. customs district; the U.S. port code; manifest number; the vessel name, flag of registry, type of service, and draft; the ballast or cargo code; the country and subdivision of origin or destination; U.S. census cargo code; the entrance or clearance code; and the operator code and nationality.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Commodity Movement -- Month (CMM)

Brief Description - The data elements include inbound/outbound code, type of service, U.S. customs district, U.S. port, foreign post, commodity code by census schedule A or B, country of ultimate destination for exports in transit, country from which the commodity was last shipped, flag of vessel, code channel, U.S. coastal district, year, month, manifest number, dollar value of the commodity, and weight of cargo in pounds. There is also a system that produces a number of yearly reports on commodity shipments and tonnage by type service, port, trade route, foreign port, coastal district, and direction.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Foreign Trade System - Maritime Administration Trade System

Brief Description - This data base provides information on vessels (both foreign and U.S.) entering or leaving a U.S. Port; U.S. and foreign competition which involves the determination of long tons of cargo carried between U.S. and specified foreign ports for the purpose of calculating operating differential subsidies; and trade route analysis for comparing the effectiveness of U.S. carriers versus foreign carriers on various trade routes. Annual reports produced from this system are: Foreign trade liner cargo service -- vessels cargo tonnage and sailings by trade route, flag, operator and vessel; cargo tonnage and total sailings by trade route, flag, subsidized/nonsubsidized; trade route analysis; and foreign trade competition.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Cargo/Operator Shipping Information System (COSIS)

Brief Description - Data elements include the date entered or cleared the U.S. Port; the MARAD import/export code; vessel name; U.S. coastal district; manifest number; commodity code; U.S. port entered or cleared; foreign port; country of origin or ultimate destination; exports intransit code; net registered tonnage; type of service; type of cargo; rig; draft; number of passengers; dollar value of cargo; cargo weight; flag of registry; vessel operator code; flag operator code; trade route; type of vessel; commodity name; and the MARAD vessel number.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Cargo Preference System (CPS)

Brief Description - The data elements in this data base include the MARAD identification number, name of the vessel, its flag of registry, the date of loading, port of loading, port of discharge, a commodity description, the cargo weight in pounds, the total ocean freight revenue, the type of service operator, and the program identification. It is updated as information becomes available.

Organizational Element - Office of Policy and Plans

Title - Foreign Trade Projections

Brief Description - The administration produces long term forecasts for major import and export commodity groups which extend from 1976 to 2000, in five year intervals. Computer printouts contain projections of commodity flows by sixty-five major trade routes and by nineteen world trading regions.



Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics, also Department of Documents, U.S. Government Printing Office

Title - Statistics - Containerized Cargo

Brief Description - An annual publication which exhibits total containerized foreign trade information by trade route, for vessels 1,000 or more gross registered tonnage which are carrying twenty-five or more 8 x 8 x 20 foot (20 ft. equivalent units (TEU) cargo containerized/trailers units), including appropriate textual discussions about commodities and their activities.

Organizational Element - Office of Information

Title - Merchant Marine Data Sheet

Brief Description - Provides a statistical summary information data sheet of the status of the active U.S. fleet, and of all vessels under construction or conversion. Particular data provided for U.S. oceangoing merchant marine vessels of 1,000 gross tons and over, excluding privately owned tugs, barges, and other special types, include the number of ships in each class (active and inactive fleet combination carriers, freighters, bulk carriers, tankers, and intermodal carriers), and their gross and deadweight tonnage. Other data presented are as follows: employment of U.S.-flag oceangoing merchant marine vessels of 1,000 gross tons and over, excluding vessels operating exclusively on inland waterways, the great lakes, those owned by the U.S., and special types such as cable ships and tugs; the total subsidized vessels and companies holding operating subsidy contracts; the U.S. Great Lakes fleet of self-propelled vessels of 1,000 gross tons and combination carriers; manpower figures for longshoremen, shipyards, Great Lakes, and men in training; ship construction and conversion under contract by company (number of vessels, type, total deadweight, cost, amount of government participation), and converted privately constructed ships completed during the previous year.

Organizational Element - Office of Ship Construction

Title - Report on Survey of U.S. Shipbuilding and Repair Facilities

Brief Description - Data included in this survey cover all major U.S. shipbuilding facilities. Specific information is provided on manpower, material shortages, shipyard pollution abatement, ship repair facilities, major drydocking facilities, major topside repair facilities, yard plans, major U.S. private shipyards, number of shipways by maximum length capacity, and ship construction capability by ship type.

Organizational Element - Office of Domestic Shipping

Title - Domestic Waterborne and Great Lakes Commerce of U.S.

Brief Description - Aggregated domestic waterborne commerce by trade segment, vessel type, tonnage received and shipped from, and total tonnage.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - U.S. Oceanborne Foreign Trade Routes

Brief Description - This publication presents detailed information on cargoes moving on United States foreign waterborne trade routes both in U.S.-flag and foreign flag vessels. The publication has four parts and thirteen appendixes. Part I contains highlights of U.S. oceanborne trade foreign C.Y. 1980-1891 and twelve maps indicating the trade routes (areas) by foreign geographical area of coverage. Part II and III show commodity flow information by type of service and trade route. Part IV includes twenty-three statistical tables exhibiting U.S. oceanborne U.S. trade by type of service and historical trade for each great lakes trade area. The appendix includes summary trade tables by type of service for leading trade routes, U.S. ports, foreign countries and U.S. coastal districts; historical trade route and over trade tables; trade route designations and descriptions and U.S.-flag operators providing service on each essential trade route.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Containerships under Construction and on Order in U.S. and Foreign Shipyards Oceaing Ships of 1,000 Gross Tons and Over\*

Brief Description - Gives containerships under construction and/or on order; and merchant vessels converted to containerships in United States shipyards, by country of construction shipyard, giving deadweight, number of standard 20 foot containers, speed, scheduled delivery date, and owner.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Bulk Carriers in the World Fleet

Brief Description - Gives list of bulk carriers in the world fleet by country of registry, showing name, year built, gross, deadweight, speed, and draft. Additional tables give frequency distribution by age, speed and draft for selected years. Covers ocean going merchant type ships of 1,000 gross tons and over. Excludes vessels on the great lakes.

\* Report is prepared and maintained in office. It is not published.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Vessel Inventory Report, U.S. Flag Dry Cargo and Tanker Fleet, 1,000 Gross Tons and Over

Brief Description - Part I contains an alphabetical listing of all merchant-type ships in the United States merchant fleet, whether privately owned or Maritime Administration owned, showing for each ship the name of owner and/or operator, the design, the type of operating agreement, the effective date of the operating agreement and the dead-weight tonnage. Part II provides an alphabetical arrangement of owners and/or operators, together with a list of the vessels controlled by each. Part III lists the reserve fleet sites maintained by the maritime administration and the vessels both merchant and military types, in lay-up at each site, together with design-type summaries for individual sites and for the reserve fleet as a whole.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - New Ship Construction

Brief Description - Oceangoing ships of 1,000 gross tons and over in U.S. and foreign shipyards, (1) deliveries during calendar year; (2) ships under construction and/or on order as of end of year. (Shows number, tonnage and type of ship by country of construction and flag of intended registry).

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Statistical Analysis of the Worlds Merchant Fleets

Brief Description - Annual report on age, size, speed, and draft of ships in world merchant fleets, as of Dec. 31, 1976. Data compiled by MARAD from public and private sources, covers ships 1,000 gross tons (gt) and over, and excludes ships operating exclusively on inland water and "Special" and military-type ships. Tables show number of ships of 8-12 size groups (in G.T. or deadweight), by year built (pre-1941 to year of report), speed, and draft; and average age, speed, and draft of ships in each size group. Each table includes: world fleet; total foreign; U.S. private, government-owned, and total; thirty-three foreign countries, and all others. Countries having less than 100 merchant ships under their flags or registry are grouped under the heading "All others." 1. Freighters: General cargo carriers, containerships, partial containerships, barge carriers, and roll-on/roll-off vessels. 2. Bulk carriers: Dry and combination liquid and dry-bulk carriers. 3. Tankers. 4. Combination passenger and cargo ships.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Losses and Scrappings

Brief Description - This publication contains a listing by country of all commercial vessels lost or scrapped during the year, and includes the total number of ships lost or scrapped, the year built, gross tons, deadweight, and average age of the ships in each class (freighters, combination carriers, containerships, and tankers).

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Merchant Fleets of the World - Characteristics of Given Ships, (U.S. and Foreign Data Base)

Brief Description - The file is a quarterly review of all U.S. and foreign flag-ships (1,000 gross tons and over) which comprise the world's merchant fleet. The file provides data as to the registry, type, class, and physical characteristics of each ship. Also included in this file is information relative to merchant ships (1,000 gross tons and over) that are under construction and/or on order in world shipyards. Data provided include such items as types and physical characteristics of ships, scheduled delivery dates, country of construction and flag of intended registration.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Statistical Analysis of the Worlds Merchant Fleet

Brief Description - Published by the Maritime Administration, this report contains summary statistics for the world major maritime fleets. Included are all merchant ships of 1,000 gross tons and over, excluding those operating on the Great Lakes and special types owned by the military forces. Freighters, bulk carriers, tankers, and combination ships are covered, with particulars on each type.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Foreign Flag Merchant Ships owned by U.S. Parent Companies

Brief Description - Part 1 - Owned: Summary by flag, showing type, number of ships and tonnage; a listing showing the United States parent companies and their foreign affiliates; and a name listing of ships by owner showing where built, flag and other characteristics. Part 2 - Under Construction: Summary by flag, showing type, number of ships and tonnage; and a listing by owner showing name or hull number if available, and other characteristics.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Employment Report of United States Flag Merchant Fleet

Brief Description - The file provides details of all U.S. flag merchant ships (1,000 gross tons and over) both government and privately-owned for comparison and analysis purposes. The data consist of pertinent physical characteristics (gross and deadweight tonnage, base cubic capacity, length, beam, draft, etc.) of all ships registered under U.S. flag. In addition it also reflects the area of operation for those ships which are active and identifies those which are inactive.

Organizational Element - Office of Maritime Labor and Training

Title - Seamen's Employment Analysis System

Brief Description - Produces statistical reports on the composition of the U.S. merchant marine workforce. Generates reports on the number of active seamen by age, job skill, days worked, training sources, attrition rates, reentry rates, licensing, and other characteristics.

Organizational Element - Office of Domestic Shipping

Title - Domestic Waterborne Trade of the United States

Brief Description - This system is a comprehensive data base from which information can be extracted to support market development in the three domestic trade areas: Domestic oceans, great lakes, and inland waterways. Data can be used to assist the maritime industry in assessing its share of total commodities being moved, establishing its responsibilities in providing transportation services, and capitalizing more fully on market opportunities. The principal subject matter covered is commodity movements in the U.S. domestic waterborne trade. Data include vessel type, traffic type, service type, vessel operator, vessel ID, shipping and receiving dates, shipping and receiving channel, commodity code and name, shipping and receiving coastal districts, and shipping and receiving ports.

Organizational Element - Office of Maritime Labor and Training

Title - Deck and Engine Officers in the U.S. Merchant Marine: Supply and Demand

Brief Description - Projecting supply of the demand for Deck and Engine Officer in the U.S. Merchant Marine, 1929-1988. Based on a survey of the maritime industry, merchant marine employment data from the Coast Guard, and information from federal agencies operating fleets. Employment sectors covered are deep sea, Great Lakes, government, offshore mineral and oil exploration, and inland waterways. Projections are based on current size and operating condition of fleet, projected into the future.

Organizational Element - Office of Port and Intermodal Systems

Title - National Trade/Vessel Analysis Reports

Brief Description - The National Trade/Vessel Analysis Reports are a collection of separate U.S. port oriented reports which contain five years of foreign trade trend data. The individual port reports contain cargo and vessel movement information for calendar years 1973-1979. The reports which are produced on a periodic basis, track both the value and tonnage distribution for each major port by twelve specific commodity groups.

Organizational Element - Office of Trade Studies and Subsidy Contracts, Division of Statistics

Title - Merchant Fleets of the World: Oceangoing Steam and Motor Ships of 1,000 GT and Over as of December 31 (Yearly)

Brief Description - Report includes tabular information on the worlds merchant fleets showing the number of vessels and gross tons and deadweight for four all-inclusive vessel type designations (passenger vessels, bulk carriers, tankers, and freighters). The freighter fleet is further broken down into five subgroups which highlight recent developments in intermodal vessels. Comparative deadweight rankings of each national flag for the current year and selected previous years are given for each type of vessel. An extended analysis of the U.S. merchant fleet and the fleets of the twelve largest maritime nations is also presented.

Organizational Element - Office of Shipbuilding Costs

Title - Relative Cost of Shipbuilding: Report to the Congress on the Relative Cost of Shipbuilding in the Various Coastal Districts of the U.S.

Brief Description - This report to Congress contains data on the costs of labor, materials, and overhead in shipbuilding industry for Atlantic, Gulf, Pacific, and Great Lakes areas. Specific information includes shipyard production and employment: Merchant ships 5000 gross tons and over delivered or on contract; contracts awarded under the Merchant Marine Act of 1970 with the date of the award, number of ships, their designs, owners, contractors, and prices; and shipyard employment in yards with facilities for building ships 475 x 68 and larger; shipyard employee earnings and shipbuilding costs: Comparative wages of production workers in fourteen port areas; building trades union wage rates; total employment and average hourly earnings of production workers in the shipbuilding and repair industry; labor rates in U.S. naval shipyards; and a summary of cost differentials for steel, other materials, labor, and overhead for the Pacific, Gulf, and Great Lakes versus the East Coast.



# INVENTORY OF DOT STATISTICAL INFORMATION SYSTEMS

## Inventory of Research & Special Programs Administration

Organizational Element - Government Printing Office, Material Transportation Bureau

Title - Annual Report of the Secretary of Transportation on Hazardous Materials Controls

Brief Description - This report is a summary of the Department's activity associated with the administration of the Hazardous Materials Transportation Act of 1974. It contains a compilation of intermodal activity in the transportation of hazardous materials which includes: a statistical compilation of hazardous materials incidents involving death or injury by mode of transport; data on hazardous materials inspection and surveillance activity, hazardous materials regulations violations and enforcement actions, a list of applicable federal regulations, criteria, orders and exemptions in effect; and a summary of the Department's role and participation in hazardous materials control at the international level.

Organizational Element - DOT, Materials Transportation Bureau

Title - Annual Report on Pipeline Safety

Brief Description - This report is a summary of the Department's activity associated with the administration of the Pipeline Safety Act of 1979. The report shows liquid pipeline failures and casualties, regulatory activity, compliance activity, federal, state cooperation and the grant-in-aid program, research studies, dissemination of pipeline safety information, a summary of outstanding problems, a listing of waivers granted under the Act, and a report of activity related to the construction of the Alaska Natural Gas Transportation System.

Organizational Element - DOT, Materials Transportation Bureau

Title - Pipeline Carrier Accident Report System

Brief Description - System reports any failure in a liquid pipeline system where there is a release of commodity transported resulting in any of the following consequences: explosion or fire not intentionally set by carrier; loss of fifty or more barrels of liquid; escape to the atmosphere of more than five barrels a day of liquified petroleum gas or other liquified gas; death of any person; and property damage of at least \$1000. System contains the name and address of carrier, date, time, and location of accident, origin of liquid or vapor release; cause of accident; fatalities and injuries of the carriers' employees and other persons; property (damaged item) and dollar value; commodity being transported - estimated loss on barrels; year of installation of facilities, and whether there was fire or explosion, or injury to a person requiring hospitalization.

Organizational Element - DOT, Materials Transportation Bureau

Title - Certification 5(A) and Agreement 5(B)

Brief Description - Contains state jurisdiction over intrastate gas facilities, pipeline accidents in preceding years, records maintenance report, name and address of operators jurisdiction state agencies, gas pipeline accident/incident information, state enforcement, and surveillance activity.

Organizational Element - DOT, Materials Transportation Bureau

Title - Natural Gas Pipeline Statistics

Brief Description - Federal regulation CFR 49, Part 191 requires that all gas pipeline operators file annual reports with the U.S. Department of Transportation's Materials Transportation Bureau. These reports contain a wide range of safety and operational data involving the transportation of natural gas by miles of pipe installed and in service, etc. The information tabulated in this annual publication is based on forms submitted and is divided into three major sections: historical, national, and state/regional summary data. The historical section contains tables and charts useful in computing trend analysis of the pipeline industry. Information such as: miles of pipeline installed, retired, inspected, cathodically protected and in service; number of personal injuries and the amount of property damage; number of leak repaired, cause, etc., are included.

Organizational Element - DOT, Materials Transportation Bureau

Title - Pipeline Leak and Test Failure Reporting System

Brief Description - System contains the following information: Nationwide identification of companies; size, materials and age of gas systems; number of leaks repaired; gas systems which use coated or bare pipes; gas systems cathodically protected; fatalities and injuries; operator property damage estimates; value of property damage to operator and others; fires and explosions; leak surveys; and cathodic inspections. Specific incident data show when and where occurred; cause, pipe specifications when installed; materials that failed; fatalities and injuries; estimated damage; environment of incident; time until escape of gas stopped; method of leak or failure detection; type of repair, etc.

Organizational Element - TSC, U.S. Department of Transportation

Title - U.S. International Air Travel Statistics

Brief Description - Content: The system contains records of passengers on all international flights arriving at or departing from U.S. gateways, number of U.S. citizens and aliens, city and country names. Reports include the monthly, quarterly and annual I-92 travel summary reports which provide total passengers between each U.S. port and foreign country detailing service type, city pair, and

citizen percentage; and a geographical summary subtotal listing of passengers by world area, and country. Availability: monthly, quarterly, and annual reports are published and distributed to the transportation industry by subscription. In particular, monthly U.S. International Air Travel Statistics show U.S. arrivals and departures of aliens and citizens, by port, by U.S. and foreign flag carriers, and by scheduled and chartered flights. (Published by Transportation Systems Center, Cambridge, Mass.

Organizational Element - TSC, Center for Transportation Information

Title - National Transportation Statistics

Brief Description - This system provides summarized transportation activity information to DOT management and transportation community to support policy and planning decisions. The information consists of selected national-level transportation statistics. Included are cost, inventory, and performance data describing the passenger and cargo operations of the following modes: Air Carrier, General Aviation, Automobile, Bus, Truck, Local Transit, Rail, Water, Oil Pipeline and Gas Pipeline. The report includes basis descriptors of U.S. transportation such as operating revenues and expenses, number of vehicles and employees, vehicle miles and passenger miles. Previous editions cover selected data over a ten year span beginning in 1960.

Organizational Element - TSC, Center for Transportation Information

Title - Energy Statistics: A Supplement to the Summary of National Transportation Statistics, 1973-1976

Brief Description - This report is a compendium of selected time-series data describing the transportation, production, processing, and consumption of energy. It discusses such items as the revenues and expenses of oil pipeline companies, number and capacities of U.S. tank ships, the total crude oil transported in the U.S. by method of transportation; growth over time of the U.S., oil and natural gas reserves, refinery capacity and yields; and trends in the demand for fuel and power. From 1977 to present, it has been included in National Transportation Statistics.

Organizational Element - TSC, Center for Transportation Information

Title - Transportation Safety Information System (TRANSIS)

Brief Description - The system contains national data on accidents, injuries, and fatalities by month and by transportation mode. When available, data on accident and fatality rates are included in the system. The system contains information on safety problems, safety program activities and summary statistics. The modes included in the system are highway, rail, rapid rail transit, aviation, waterborne transport, recreational boating, pipelines, and hazardous materials. The report also contains narrative and graphic presentations of modal safety performance and a discussion of safety problems and program highlights within each mode.

Organizational Element - U.S. Department of Transportation

Title - Energy Use and Other Comparisons Between Diesel and Gasoline Trucks,  
February 1977

Brief Description - Report comparing fuel consumption and operating costs for gasoline and diesel powered trucks, FY 73-76. Based on Maine Department of Transportation records for 175 state highway maintenance trucks. Appendix contains seventy-seven tables comparing mean fuel, oil, and grease use and/or costs; winter and summer fuel economy, maintenance costs; and capital costs and depreciation. All data are shown annually, FY 73-76, for gasoline and diesel trucks.