



U.S. Department of Transportation
Office of the Assistant Secretary for Research and Technology

National Transportation Library: Virtual Reference, Digital Collections, and Data Services

2016 Federal Depository Library Conference
Arlington, VA
October 18, 2016



U.S. Department of Transportation
National Transportation Library

1998



Transportation Equity Act for the 21st Century (1998)

“(e) NATIONAL TRANSPORTATION LIBRARY.—

“(1) IN GENERAL.—The Director shall establish and maintain a National Transportation Library, which shall contain a collection of statistical and other information needed for transportation decisionmaking at the Federal, State, and local levels.

“(2) ACCESS.—The Director shall facilitate and promote access to the Library, with the goal of improving the ability of the transportation community to share information and the ability of the Director to make statistics readily accessible under subsection (c)(5).

“(3) COORDINATION.—The Director shall work with other transportation libraries and other transportation information providers, both public and private, to achieve the goal specified in paragraph (2).



2012



MAP-21 & NTL summary

- NTL's authorized role is expanded and more in line with the 4 other national libraries
- National Transportation Library functions:
 - ❑ Services to DOT, other Federal agencies, public and private organizations, and individuals within the U.S. and internationally
 - ❑ Set specific requirements for the NTL Director's position
 - ❑ Acquire, preserve and manage transportation information and information products and services for use by DOT, other Federal agencies, and the public
 - ❑ Provide reference and research services
 - ❑ Central repository for DOT research results and technical publications
 - ❑ Central clearinghouse for transportation data and information of the Federal Government
 - ❑ Serve as coordinator and policy lead for transportation information access
 - ❑ Coordinate among and cooperate with multiple external parties to develop a "comprehensive transportation information and knowledge network" to support the I-XI list [information required of BTS at 49 USC 6302((b)(3)(B)(vi)]
 - ❑ Publicize, facilitate and promote access to information products and services
 - ❑ Receives contract, grant and agreement authority to support these goals
- BTS contract authority reduced from \$27M to \$26M, FY 13 – 14.



Public Access: Increasing Profile and Visibility of NTL and LIS Skillset

- **February 22, 2013** – The White House Office of Science and Technology Policy released a memorandum requiring all Executive Departments and Agencies spending more than \$100 million/year on R&D to ensure public access to ***peer-reviewed publications and digital datasets*** arising from ***federally-funded scientific research***

More information:

https://www.whitehouse.gov/sites/default/files/microsites/ostp/ostp_public_access_memo_2013.pdf

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20502

February 22, 2013

MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM: John P. Holdren *JPH*
Director

SUBJECT: Increasing Access to the Results of Federally Funded Scientific Research

I. Policy Principles

The Administration is committed to ensuring that, to the greatest extent and with the fewest constraints possible and consistent with law and the objectives set out below, the direct results of federally funded scientific research are made available to and useful for the public, industry, and the scientific community. Such results include peer-reviewed publications and digital data.

Scientific research supported by the Federal Government catalyzes innovative breakthroughs that drive our economy. The results of that research become the grist for new insights and are assets for progress in areas such as health, energy, the environment, agriculture, and national security.

Access to digital data sets resulting from federally funded research allows companies to focus resources and efforts on understanding and exploiting discoveries. For example, open weather data underpins the forecasting industry, and making genome sequences publicly available has spawned many biotechnology innovations. In addition, wider availability of peer-reviewed scientific publications and digital data sets will increase the visibility of research results and

NTL Partners



LIBRARY OF
CONGRESS
FEDLINK



MIDWEST TRANSPORTATION
KNOWLEDGE NETWORK



Transportation Library
CONNECTIVITY



U.S. Department of Transportation
National Transportation Library



National Transportation Library Digital Repository Initiatives

Mary Moulton
Digital Librarian
National Transportation Library



Agenda

- About NTL's Digital Repository
- Collections
- Digitization
- Services
- Assessment
- Outreach



NTL Digital Repository and Services

- Digital Repository
 - Purpose: serve as central clearinghouse and archive for public access transportation information
 - 50,000+ items
 - Special features: access to specialized collections and integration of USDOT repositories in our platform
 - Volpe Reports
 - Directory of Transportation Data Sources
 - NHTSA Behavioral Safety
 - ITS JPO Electronic Library
 - Services: digitization activities, preservation & ensuring perpetual access; permanent URLs, links incorporated into TRID records
- NTL Digital Repository:
<http://ntlsearch.bts.gov/repository/index.do>



NTL Digital Repository Migration

Current

- Homegrown OAI-PMH compliant repository (Open Archives Initiative Protocol for Metadata Harvesting)
- In-house hardware
- Manual analysis and application of metadata
- Repository search
- Self governance using OAIS model

Future

- Open source platform
 - Currently migrating to CDC Stacks platform (Islandora/Drupal/Fedora)
- Cloud hosting
- Processing enhanced with auto-indexing
- Federated search and discovery
- Compliance with guidelines for Federal Repositories

For additional information regarding Trusted Digital Repositories, see December 2014 Transportation Librarians Roundtable <http://ntl.bts.gov/networking/roundtable.html>



NTL Partnerships

- Transportation Research Board

- TRID and the National Transportation Library Digital Repository
- Transportation Research Thesaurus
- Other TRB Committees and Task Forces



- Federal Libraries

- Federal Agencies Digitization Guidelines Initiative
- Federal Library and Information Centers Committee
- CENDI (Federal Science and Technology Information Managers)



Collection Policy

- NTL collects and maintains significant research and statistical publications in its Digital Repository
- Resources in the collection have value to federal, state, and local transportation decision makers, transportation analysts, and researchers



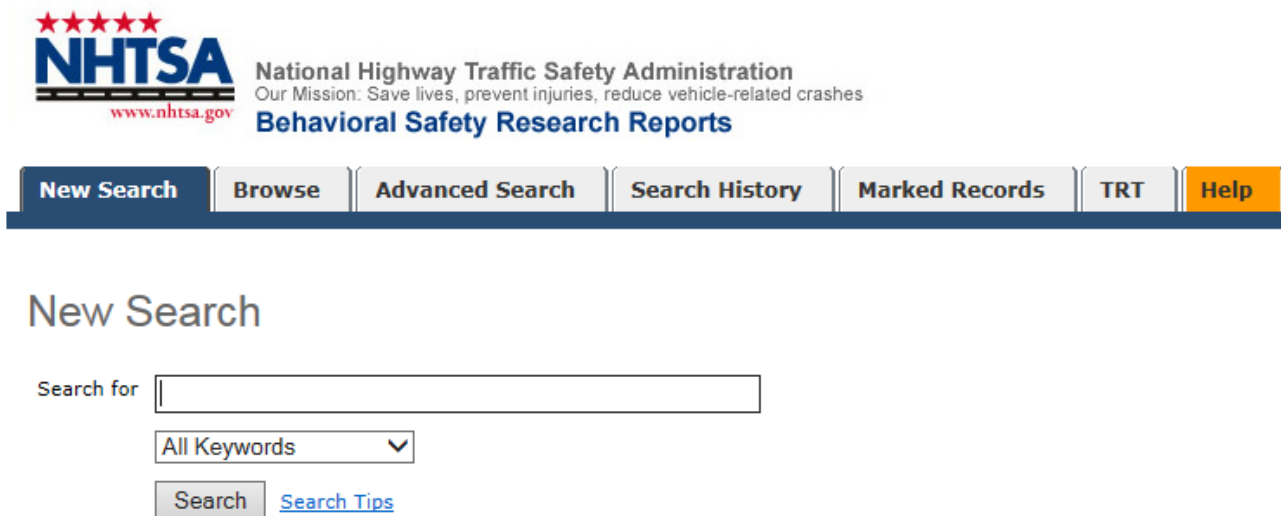
Collections

- NTL serves as a permanent archive for statistical, technical, research and policy documents required by researchers and decision makers and provided to NTL by federal, state, local, tribal and other government agencies



Collections

- NTL partners with administrative offices within US DOT to create collection views for search
- Example: NHTSA Behavioral Safety Research Reports



The screenshot displays the NHTSA Behavioral Safety Research Reports search interface. At the top left is the NHTSA logo, featuring five red stars above the text "NHTSA" in blue, with "www.nhtsa.gov" in red below it. To the right of the logo, the text reads "National Highway Traffic Safety Administration" and "Our Mission: Save lives, prevent injuries, reduce vehicle-related crashes" in blue. Below this is the title "Behavioral Safety Research Reports" in blue. A navigation bar contains several buttons: "New Search" (dark blue), "Browse" (light blue), "Advanced Search" (light blue), "Search History" (light blue), "Marked Records" (light blue), "TRT" (light blue), and "Help" (orange). Below the navigation bar is the "New Search" section, which includes a search input field with the placeholder text "Search for", a dropdown menu set to "All Keywords", a "Search" button, and a link to "Search Tips".



Repository Work Process

- NTL ingests submitted documents, creating unique persistent URLs to full text in NTL digital repository
- NTL reports URLs to TRB for inclusion in indexing records <https://trid.trb.org/>
- NTL creates minimal catalog record for each report, records uploaded to OCLC Gateway
- NTL maintains long term access and storage



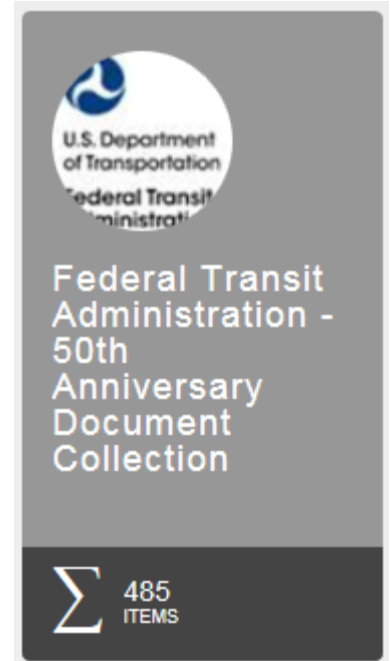
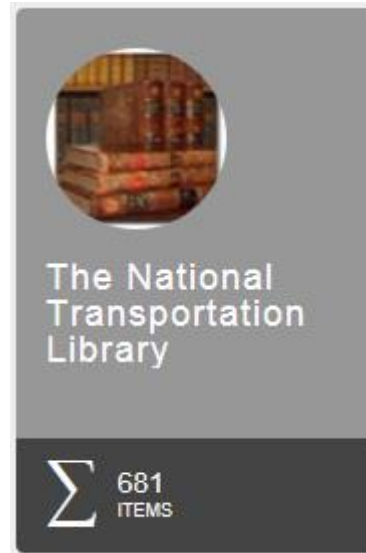
Cataloging Policy

- NTL catalog is structured around a modified Dublin Core metadata schema. A minimal cataloging standard was adopted in 2013 that satisfies OCLC K-level standard.
- Drivers
 - Searchable full text repository
 - Reduced staffing level due to sequestration
 - Government mandates
 - Opportunity to leverage existing bibliographic tools (TRID, TRT)
- Goal: Improve cataloging efficiency while maintaining consistent and accurate metadata in NTL's digital collections
 - Identify minimum requirements for functionality and interoperability amongst NTL's user interfaces and digital content platforms (current and future)
 - Meet our legislative mandates
 - Eliminate duplication of effort
 - Develop new cataloging guidelines for NTL's digital repository



FEDLINK / Internet Archive

- NTL supplies barcode
- Using Z39.50, IA pulls catalog record from ILS
- IA gives us:
 - Digitized copy @ 300 dpi
 - Metadata
 - OCR
 - A searchable copy archived on IA site



FEDLINK / Internet Archive

- Internet Archive supplies basic metadata

Alternatives Analysis/Draft Environmental Impact Statement for the Queens Subway Options Study: Borough of Queens, New York, New York - U.S. Department of Transportation Urban Mass Transportation Administration, Metropolitan Transportation Authority State of New York

by [Hiram J. Walker](#) and [Robert R. Kiley](#)

Published [May 1984](#)

Publisher [Federal Transit Administration/US Department of Transportation](#)

Pages [652](#)

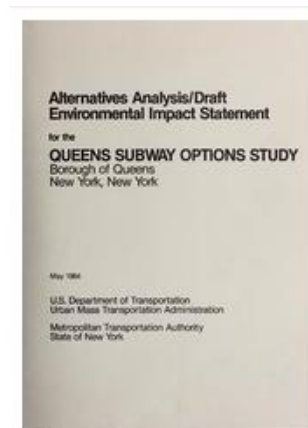
Possible copyright status [The library is unaware of any copyright restrictions for this item.](#)

Language [English](#)

Digitizing sponsor [Federal Transit Administration](#)

Book contributor [Federal Transit Administration - 50th Anniversary Document Collection](#)

Collection [fta50thanniversary](#); [federaltransitadministration](#); [fedlink](#); [americana](#)



Alternatives Analysis/Draft Environmental Impact
by [Hiram J. Walker](#) and [Robert R. Kiley](#)



FTA Collection

- NTL ingests digital copies and metadata, creates collection view, sends monthly report to TRID
- Internet Archive keeps digital copy in special collection
- All copies searchable with Google



Advanced Search

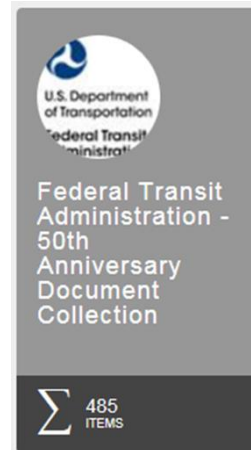
Search in

Collection

for

AND

AND



Consulting Services

- Taxonomy and Ontology development for DOT intranet projects
- Transportation Research Thesaurus development and maintenance
- Digitization services
 - NTL advises and facilitates digitization for DOT administrative offices



Assessment: NTL physical collection

- NTL physical library downsizing in 2015
- OCLC Strategic Collection Services employed to quickly understand NTL collection
- NTL holdings compared to other federal libraries, state DOT libraries and Hathi Trust (custom groups)
- Report used to select candidates for digitization



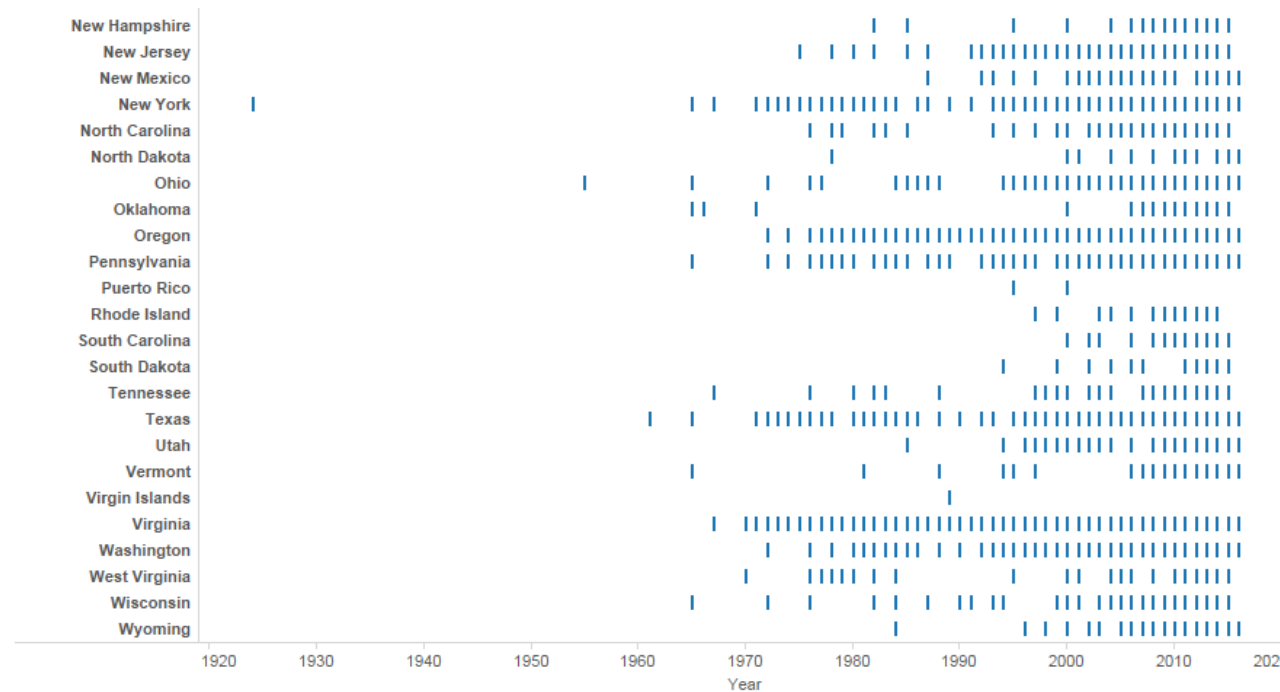
Assessment: USDOT publications

- 4000+ publications and orders (part of a larger collection)
 - TIFF and PDF formats
- All metadata downloaded into spreadsheet
- Every item in spreadsheet checked for copy quality, adequate metadata, broken url
 - Poor quality scans will be re-digitized
 - Metadata will be repaired in spreadsheet
 - Batch ingestion



Repository Assessment

- Currently evaluating Tableau as a tool for analyzing metadata to visualize collections



Networking and Outreach

- Transportation Knowledge Networks
- Transportation Librarians Roundtable
<http://ntl.bts.gov/networking/roundtable.html>
- Science.gov Alliance



Thank you!

Questions or comments?

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<http://ntl.bts.gov/>

@NatTransLib





U.S. Department of Transportation
Office of the Assistant Secretary for Research and Technology

Reference Sources and Services for Transportation

David W. Martin
Reference Librarian
National Transportation Library

2016 Federal Depository Library Conference
Arlington, VA
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U.S. Department of Transportation
National Transportation Library

How do customers contact us?

Ask a Librarian

The screenshot shows the 'Ask a Librarian' page on the U.S. Department of Transportation website. The header features the department's logo and name, a search bar with a 'GO!' button, and links for 'Log In' and 'Sign Up'. Below the header, there are tabs for 'Answers' and 'Ask a Librarian', with the latter being selected. A 'Search' button is visible. A disclaimer states: 'You are accessing a U.S. Government information system. This information system, including all related equipment, networks, and network devices, is provided for U.S. Government-authorized use only. Unauthorized or improper use of this system is prohibited, and may result in civil and criminal penalties, or administrative disciplinary action. The communications and data stored or transiting this system may be, for any lawful Government purpose, monitored, recorded, and subject to audit or investigation. By using this system, you understand and consent to such terms'. The main form area is titled 'Question Data (Do not enter any personal contact information here)' and contains three required fields: 'Email Address *', 'Subject *', and 'Question *'. The 'Question' field is a large text area. At the bottom, there is a section for 'Additional Information'.

“Ask A Librarian” page under “Contact Us” allows customer to submit question and attach related documents



U.S. Department of Transportation
National Transportation Library



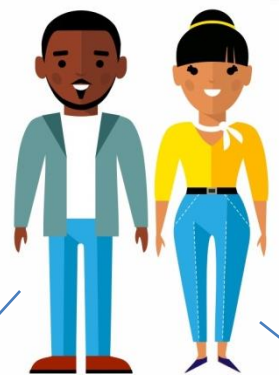
A few each month are from the media



1.3% are from local governments



1.8% are from State governments



Who uses the reference services of the NTL?



2.5% come from other Federal Agencies



4% are international



13% are Academia



23% come from For-Profit



Who Is Our Audience?

More than half of the requests received each month (59%) come from the General Public





22.5% dealt with Air Travel



15.1% had questions about Autos



12.2% dealt with highways and road conditions



What topics do our patrons ask about?



21.3% asked about Trucking



Bikes, Motorcycles,
Trains, Boats- none
more than 5%





F M C S A
Federal Motor Carrier Safety Administration

22%



2%



Federal Transit Administration



9%



3.6%



4%



Federal Aviation Administration

3.7%



U.S. Department of Transportation
National Transportation Library



Problems with local roads or infrastructure



Complaints about air travel, service, lost luggage, etc.



When people contact you – what do they ask ?



Ideas and suggestions for auto parts, new technologies, etc.



Questions about drug & alcohol policies



OFFICE OF THE ASSISTANT SECRETARY FOR RESEARCH AND TECHNOLOGY
Bureau of Transportation Statistics

13% of all “incidents “ received are resolved using the resources of the BTS


As a statistical agency, BTS:

- is policy-neutral-an objective broker for the facts
- covers all of transportation; BTS is cross-modal in nearly everything we do
- does independent data collection and analysis, but BTS also serves all the other modes to help them be more effective and efficient
- sets standards for transportation data
- has special statutory protections (essentially the same as those for Census Bureau and Bureau of Labor Statistics) for the confidentiality of data we collect
- has unique competencies in statistics, economics, information technology, geographic information systems, and transportation



TranStats

TranStats is a central access point to a broad collection of intermodal transportation data. These data have been collected by various agencies within the U.S. Department of Transportation or by other federal agencies, such as the U.S. Bureau of the Census.



Search this site:

[Advanced Search](#)

Resources

- Database Directory
- Glossary
- Upcoming Releases
- Data Release History

Data Finder

By Mode

Quick Answers

- [Carrier Snapshots](#)
- [Airline Fuel Cost and Consumption](#)
- [Air Freight Summary](#)
- [Employment](#)
- [Airport Snapshots](#)
- [Holiday Flight Delays](#)
- [Inter-Airport Distances](#)
- [Tarmac Times](#)

Airline Activity : National Summary (U.S. Flights)

| | 2015 * | 2016 * | Change |
|--|--------|--------|------------|
| Enplaned Passengers (million) | 675 | 711 | 5.3% |
| Departures (000) | 8,525 | 8,609 | 1.0% |
| Freight/Mail (million lbs) | 20,394 | 20,806 | 2.0% |
| Load Factor (%) | 84.4 | 84.9 | 0.5 points |
| Airlines with scheduled service | 98 | 96 | -2.0% |

At a Glance

Flight Delays [more..](#)

Percent of U.S. Flights On Time(2015 - 2016) Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul 0 50 100

[Click a bar for details. Mouseover it for percentage.](#)



Airport Snapshot Data for every major airport in every market

Washington, DC: Ronald Reagan Washington National (DCA)

Scheduled Services except Freight/Mail

BTS Data as of 10/4/2016

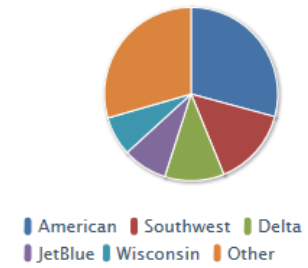
Summary Data (U.S. Flights Only)

| Passengers* | 2015** | 2016** | %Chg | Rank*** |
|---|---------|---------|--------|---------|
| Arrival | 10,389k | 11,279k | 8.57% | 21 |
| Departure | 10,397k | 11,252k | 8.22% | 21 |
| Scheduled Flights | | | | |
| Departures | 135,590 | 139,980 | 3.24% | 18 |
| Freight/Mail (lb.) (Scheduled and Non-Scheduled) | | | | |
| Total | 5,537k | 5,023k | -9.29% | 165 |
| Carriers | | | | |
| Scheduled | 24 | 22 | -8.33% | |

* Scheduled enplaned revenue passengers.
 ** 12 months ending June of each year.
 *** Among 823 U.S. airports, 12 months ending June 2016

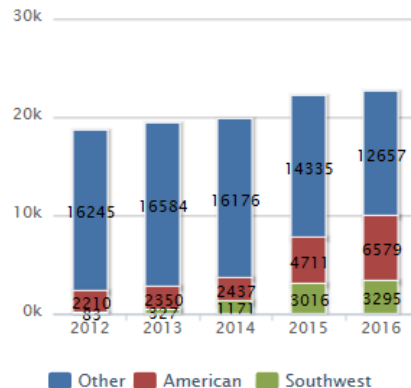
Carrier Shares for July 2015 - June 2016

| Carrier | Passengers | Share |
|-----------|------------|--------|
| American | 6,579 | 29.20% |
| Southwest | 3,295 | 14.62% |
| Delta | 2,498 | 11.09% |
| JetBlue | 1,869 | 8.29% |
| Wisconsin | 1,653 | 7.34% |
| Other | 6,637 | 29.46% |



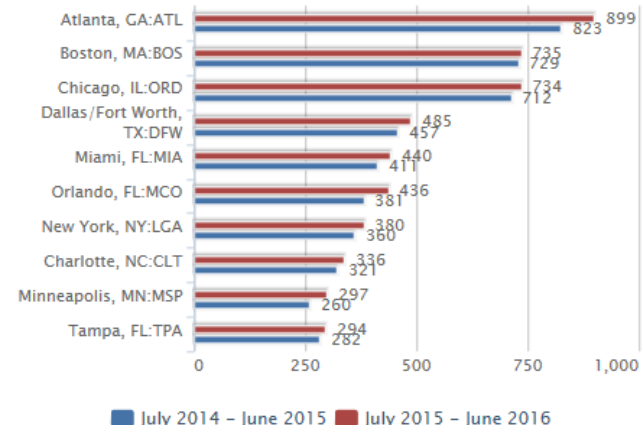
Based on enplaned passengers(000) both arriving and departing.

Total Passengers (U.S. Flights, in thousands)



* Before October 2002, only carriers operating aircraft with more than 60 seats or 18,000 pounds in payload reported traffic data.
 ** 2016 represents data for July 2015 - June 2016.

Top 10 Destination Airports (U.S. Only, Passengers (000))



Source: T-100 Domestic Market (US Carriers).

DCA vs. National Departure Delays (Major U.S. Carriers)

DCA On-Time Performance Summary (Major U.S. Carriers Only)

Enplanement data and Market Share for all US Airlines with more than \$20m in annual revenue

Southwest Airlines (WN)

Scheduled Services Only

BTS Data as of 10/4/2016

Summary Data (U.S. Airports, 12 Months Ending June)

| | 2015 | 2016 | %Chg | Rank ¹ |
|------------------------|----------|----------|----------|-------------------|
| Passengers | 134,446k | 146,295k | 8.81% | 1 |
| Departures | 1,205k | 1,271k | 5.43% | 1 |
| RPM ² | 107,622m | 118,482m | 10.09% | 2 |
| ASM ³ | 129,686m | 141,003m | 8.73% | 2 |
| Loadfactor | 83.0% | 84.0% | 1.00 pts | 11 |
| Air Cargo ⁴ | 288m | 214m | -25.66% | 4 |
| Markets Served | 88 | 96 | 9.09% | |
| Share ⁵ | 17.67% | 18.27% | 0.60 pts | 2 |

1 Among 86 passenger carriers for 2016

2 Revenue Passenger Miles

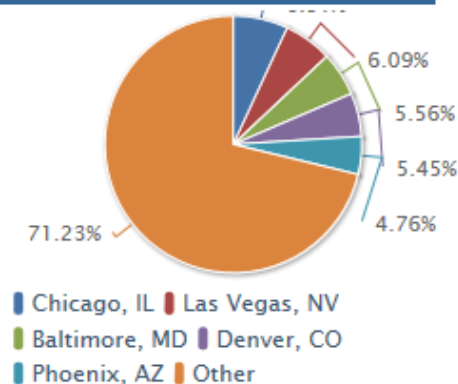
3 Available Seat Miles

4 Air Cargo is the sum of Freight and Mail in pounds.

5 Market share based on Revenue Passenger Miles.

Top Domestic Markets* (July 2015 - June 2016)

| Market | Passengers | Share** |
|---------------|------------|---------|
| Chicago, IL | 10.11m | 24.22% |
| Las Vegas, NV | 8.91m | 43.43% |
| Baltimore, MD | 8.14m | 70.68% |
| Denver, CO | 7.98m | 30.71% |
| Phoenix, AZ | 6.96m | 33.35% |
| Other | 104.21m | 17.64% |

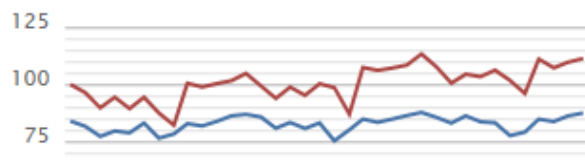
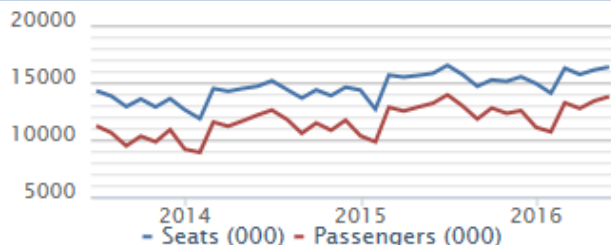


* Based on total enplaned passengers at all airports in a city.

** The table shows the carrier's share in each of the markets.

The pie chart shows each market's share in the carrier's total air passengers.

Monthly Flight Operations (ending June 2016)



Revenues and Costs

2015 vs. 2016 (4 quarters ending Q2 of each year)

| | 2015 | 2016 | %Chg ¹ |
|--------------------------------------|--------|--------|-------------------|
| Operating Revenue (millions) | 18,952 | 20,506 | 8.20% |
| Operating Cost (millions) | 15,853 | 16,035 | 1.15% |
| Operating Profit/Loss (millions) | 3,100 | 4,471 | 44.23% |
| Net Income (millions) | 1,580 | 2,452 | 55.19% |
| Passenger Yield (cents) ² | 16.40 | 15.22 | -7.20% |
| Revenue per ASM (cents) ³ | 14.30 | 14.10 | -1.40% |
| Cost per ASM (cents) ⁴ | 11.96 | 11.03 | -7.78% |

| Departure Performance | | | |
|------------------------------|----------------------|--|----------------------------------|
| <input type="checkbox"/> | CRSDepTime | CRS Departure Time (local time: hhmm) | |
| <input type="checkbox"/> | DepTime | Actual Departure Time (local time: hhmm) | |
| <input type="checkbox"/> | DepDelay | Difference in minutes between scheduled and actual departure time. Early departures show negative numbers. | |
| <input type="checkbox"/> | DepDelayMinutes | Difference in minutes between scheduled and actual departure time. Early departures set to 0. | |
| <input type="checkbox"/> | DepDel15 | Departure Delay Indicator, 15 Minutes or More (1=Yes) | Get Lookup Table |
| <input type="checkbox"/> | DepartureDelayGroups | Departure Delay intervals, every (15 minutes from <-15 to >180) | Get Lookup Table |
| <input type="checkbox"/> | DepTimeBlk | CRS Departure Time Block, Hourly Intervals | Get Lookup Table |
| <input type="checkbox"/> | TaxiOut | Taxi Out Time, in Minutes | |
| <input type="checkbox"/> | WheelsOff | Wheels Off Time (local time: hhmm) | |
| Arrival Performance | | | |
| <input type="checkbox"/> | WheelsOn | Wheels On Time (local time: hhmm) | |
| <input type="checkbox"/> | TaxiIn | Taxi In Time, in Minutes | |
| <input type="checkbox"/> | CRSArrTime | CRS Arrival Time (local time: hhmm) | |
| <input type="checkbox"/> | ArrTime | Actual Arrival Time (local time: hhmm) | |
| <input type="checkbox"/> | ArrDelay | Difference in minutes between scheduled and actual arrival time. Early arrivals show negative numbers. | |
| <input type="checkbox"/> | ArrDelayMinutes | Difference in minutes between scheduled and actual arrival time. Early arrivals set to 0. | |
| <input type="checkbox"/> | ArrDel15 | Arrival Delay Indicator, 15 Minutes or More (1=Yes) | Get Lookup Table |
| <input type="checkbox"/> | ArrivalDelayGroups | Arrival Delay intervals, every (15-minutes from <-15 to >180) | Get Lookup Table |
| <input type="checkbox"/> | ArrTimeBlk | CRS Arrival Time Block, Hourly Intervals | Get Lookup Table |
| Cancellations and Diversions | | | |
| <input type="checkbox"/> | Cancelled | Cancelled Flight Indicator (1=Yes) | Get Lookup Table |
| <input type="checkbox"/> | CancellationCode | Specifies The Reason For Cancellation | Get Lookup Table |
| <input type="checkbox"/> | Diverted | Diverted Flight Indicator (1=Yes) | Get Lookup Table |
| Flight Summaries | | | |
| <input type="checkbox"/> | CRSElapsedTime | CRS Elapsed Time of Flight, in Minutes | |

The various data tables within the TRANSTATS database will allow you to perform specific and intricate searches depending on how much - or how little – you feel you need to solve the patron request.



North American Transborder Freight Data: Main Search Page

North American Transborder Freight Data, including Port, Commodity, or State Origin/Destination

Use this [North American Transborder Freight Data, including Port, Commodity, or State Origin/Destination](#) page to find the following Transborder freight data:

1. **Total(Measure):** U.S. Transborder freight by dollar value and export weight (see NOTES below for exceptions)
2. **State:** Freight value by state of origin/destination and Mexican state or Canadian province of origin/destination
3. **Border(Trading Partner):** Canadian or Mexican border
4. **Annual(Year):** Land modes since 1994 and air/vessel since 2004
5. **Monthly(Month):** Land modes since 1994 and air/vessel since 2004
6. **Modal(Mode):** Land modes since 1994 and air/vessel since 2004
7. **Direction(Trade Type):** Exports (value only) or imports (weight or value)
8. **Customs Port:** Import/export data for land ports, airports, seaports, for each border, for one or more state and for one or more Customs Port
9. **Commodity:** National, border or state level only. For commodity data by port, see the [North American Transborder Freight Data, including Port and Commodity](#) page. Data by state of origin/destination and Mexican state or Canadian province of origin/destination are not available on the port data page (see NOTES below).

| | | | |
|--|---|---|--|
| <p>U.S. State</p> <p>Aggregate all U.S. States</p> <p>All US States Detail</p> <p>Alabama (AL)</p> <p>Alaska (AK)</p> <p>Arkansas (AR)</p> <p>Arizona (AZ)</p> <p>California (CA)</p> <p>Colorado (CO)</p> | <p>Trading Partner</p> <p>NAFTA (Canada and Mexico)</p> <p>Canada</p> <p>Mexico</p> <p>All Canada Provinces Detail</p> <p>All Mexico States Detail</p> <p>Alberta (CAN)</p> <p>British Columbia (CAN)</p> <p>Manitoba (CAN)</p> | <p>Year</p> <p>All Years Detail</p> <p>2016 (Jan-Jul)</p> <p>2015</p> <p>2014</p> <p>2013</p> <p>2012</p> <p>2011</p> <p>2010</p> | <p>Month</p> <p>Annual Summary</p> <p>All 12 Months Detail</p> <p>January</p> <p>February</p> <p>March</p> <p>April</p> <p>May</p> <p>June</p> |
| <p>Customs Port</p> <p>Aggregate all Ports</p> <p>Ports by Name</p> <p>Land Ports</p> <p>Airports</p> <p>Sea Ports</p> <p>Ports by Code</p> <p>Northern Border Ports</p> <p>Southern Border Ports</p> <p>Ports by State Order</p> <p>Alaska (AK)</p> <p>Alabama (AL)</p> <p>Arkansas (AR)</p> <p>Arizona (AZ)</p> | <p>Mode</p> <p>Aggregate All Modes</p> <p>Aggregate All Except AV</p> <p>Aggregate All Surface Modes (TR)</p> <p>--Truck (T)</p> <p>--Rail (R)</p> <p>--Pipeline (P)</p> <p>Aggregate All AV Modes</p> <p>--Air (A)</p> <p>--Vessel (V)</p> <p>Aggregate MOF Modes</p> <p>--Mail (M)</p> <p>--Other (O)</p> <p>--Foreign Trade Zones (F)</p> | <p>Measure</p> <p>Value (in US Dollars)</p> <p>Weight (in Pounds)</p> <p>Weight (in Kilograms)</p> <p>Weight (in US Short Tons)</p> <p>Weight (in Metric Tons)</p> <p>Trade Type</p> <p>Total Trade</p> <p>--Exports</p> <p>--Imports</p> | <p>Data Display</p> <p>Actual</p> <p>In Thousands</p> <p>In Millions</p> <p>In Billions</p> <p>Output Option</p> <p>Table w/o % Change</p> <p>Table w/ % Change</p> <p>Other Options</p> <p>Suppress Zero and NA</p> <p>Show Commodity Desc</p> |
| <p>Port Name, Code and Type</p> <p>~Make Customs Port Selection First~</p> | | <p>Commodity</p> <p>~Make Customs Port Selection First~</p> | |

Border Crossing/Entry Data: Query Detailed Statistics

NOTE: The most recent data are from January - July 2016.

[Click here to go home](#)

[Click here to quick search by rankings](#)

[Click here to do time series analysis](#)

INSTRUCTIONS: You can make multiple selections in the boxes (except for the "Port Location" box) by clicking on selections while holding down the Shift key (contiguous) or the Ctrl key (discontinuous). You can select "All Border Ports" or "Northern Border Ports" or "Southern Border Ports" in the "Port Location" box if you wish to choose ports in multiple states. Use the scroll bar or mouse wheel to page down to see the results. The system will retain your selections in order to speed up the process if you want to change one or more items for another query. When querying monthly data, the interface will only work when querying 11 years of data or less.

Note: Loaded and empty truck container data are not available for Blaine, Washington for October-December 2015 and June-July 2016.

| Port Location | Year | Month |
|-----------------------|------------------|----------------------|
| All Border Ports | All Years Detail | Annual Summary |
| Northern Border Ports | 2016 (Jan-Jul) | All 12 Months Detail |
| Southern Border Ports | 2015 | January |
| Alaska (AK) | 2014 | February |
| Arizona (AZ) | 2013 | March |
| California (CA) | 2012 | April |
| Idaho (ID) | 2011 | May |
| Maine (ME) | 2010 | June |
| Michigan (MI) | 2009 | July |
| Minnesota (MN) | 2008 | August |
| Montana (MT) | 2007 | September |
| New Mexico (NM) | 2006 | October |
| New York (NY) | 2005 | November |
| North Dakota (ND) | 2004 | December |

| Port Name | Measure |
|--------------------------------|-----------------------------|
| (Select--Port Location--First) | All Measures Detail |
| | Trucks |
| | Loaded Truck Containers |
| | Empty Truck Containers |
| | Trains |
| | Loaded Rail Containers |
| | Empty Rail Containers |
| | Train Passengers |
| | Buses |
| | Bus Passengers |
| | Personal Vehicles |
| | Personal Vehicle Passengers |
| | Pedestrians |

Submit Reset

Highway Statistics Series

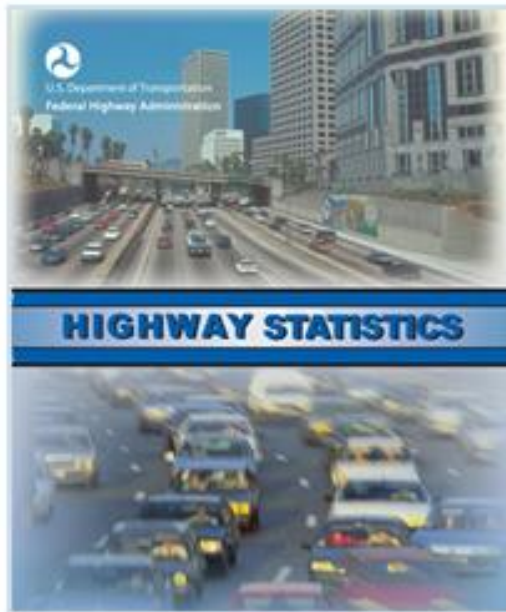
motor fuel, motor vehicle registrations, driver licenses, highway user taxation, highway mileage, travel, and highway finance

Highway Statistics Series Publications

Highway Statistics 2014



Go



[Guide to Reporting Highway Statistics](#)
[HPMS Field Manual](#)
[Traffic Monitoring Guide](#)
[Public Roads: What's in the Numbers – article](#)

6. Travelers (or System Users)

- [6.1. Overview](#)
- [6.2. National tables](#)
 - [6.2.1. Licensed drivers, vehicle registrations, and resident population - Chart](#)
- [6.3. State tables](#)
 - [6.3.1. Licensed drivers--Ratio of licensed drivers to population](#)
 - [6.3.2. Licensed drivers, by sex and percentage in each age group](#)
 - [6.3.3. Licensed drivers, by State, sex, and age group](#)

7. Vehicles

- [7.1. Overview](#)
- [7.2. National tables](#)
 - [7.2.1. Vehicle registrations, fuel consumption, and vehicle miles of travel - Chart](#)
- [7.3. State tables](#)
 - [7.3.1. State motor-vehicle registrations](#)
 - [7.3.2. Publicly owned vehicles](#)
 - [7.3.3. Truck and truck-tractor registrations](#)
 - [7.3.4. Bus registrations](#)
 - [7.3.5. Trailer and semi-trailer registrations](#)
 - [7.3.6. State motor-vehicle and motor-carrier tax receipts](#)
 - [7.3.7. Disposition of State motor-vehicle and motor-carrier tax receipts](#)



Traffic Volume Trends

Traffic Volume Trends



Traffic Volume Trends is a monthly report based on hourly traffic count data reported by the States. These data are collected at approximately 4,000 continuous traffic counting locations nationwide and are used to estimate the percent change in traffic for the current month compared with the same month in the previous year. Estimates are re-adjusted annually to match the vehicle miles of travel from the Highway Performance Monitoring System and are continually updated with additional data.

See our [Frequently Asked Questions \(FAQ's\)](#) to find more information on the Traffic Volume Trends report.



To view PDF files, you can use the [Acrobat® Reader®](#).
To view XLS files, you can use the [Excel Viewer](#)

– 2016

| Monthly Report | PDF Version | XLS Version |
|---------------------------|------------------------------|------------------------------|
| July 2016 | PDF (390 KB) | XLS (464 KB) |
| June 2016 | PDF (411 KB) | XLS (475 KB) |
| May 2016 | PDF (403 KB) | XLS (458 KB) |



Railroad Crossing Accident Database



Federal Railroad Administration
Office of Safety Analysis

You are Visitor# 12416151

[Home](#) [What's New](#) [Crossing](#) [Forms/Publications](#) [Downloads](#) [Data](#) [Documents](#) [Policies](#) [Support](#)

Last update: Tuesday, October 04, 2016

Home

Welcome to the FRA Office of Safety Analysis Web Site. The purpose of this site is to make railroad safety information including accidents and incidents, inventory and highway-rail crossing data readily available to the public.

Site users can run dynamic queries, download a variety of safety database files, publications and forms, and view current statistical information on railroad safety. [TO SEARCH](#), a [PDF](#) or [WORD](#) formatted "Table of Contents" list is available. To search by key word among queries, tables and output table fields, click on the link and then search using the application search feature (Control F).

[** Accident/Incident Recordkeeping and Reporting Reference Links **](#)

[** New email address for Railroad Accident/Incident Reporting **](#)

[** New mailing address for Railroad Accident Incident Reporting **](#)

[Definition of Individual, System and Consolidated Railroads](#)

[** Submit Highway-Rail Crossing Inventory Data with the NEW Grade Crossing Inventory System \(GCIS\) **](#)

1 - Overview

1.02 [Operational Data Tables](#)

1.03 [Overview Charts By Railroad](#)

1.04 [Overview Charts By State](#)

1.11 [One Year Accident/Incident Overview - Combined](#)



U.S. Department of Transportation
National Transportation Library

Tracking freight movement by commodity, origin, and destination

Freight Analysis Framework Data Tabulation Tool (FAF4)

[Total Flows](#)

[Domestic Flows](#)

[Import Flows](#)

[Export Flows](#)


This option is provided for users interested in tabulating FAF⁴ data to examine total flows moved between domestic origins and destinations and includes both domestic and foreign shipments. For import shipments, the origin of the flow is the zone (state or region) of entry, and for export shipments the destination of the flow is the zone (state or region) of exit. Mode of transportation for this tabulation is the mode used from zone of entry to the domestic destination, domestic origin to domestic destination, and domestic origin to zone of exit.

Note: The units of measure are **thousands of tons** for weight, **millions dollars** for value, and millions for ton-miles. Forecasts for 2020 and beyond are for the baseline scenario.

| Year | Origin | Destination |
|---|--|---|
| 1997 2002 2007 2012 2013 2014 2015 | Combine national total (not origin-specific) | Combine national total (not destination-specific) |

| Distance Band | Measure | Commodity | Domestic Mode |
|--------------------------------|--|---|--|
| Combine all (no specific info) | Select All Tons Ton-Mile Values | Combine total (no specific info) Select all 01 Live animals/fish 02 Cereal grains 03 Other ag prods. 04 Animal feed 05 Meat/seafood | Combine total (no specific info) Select all 1 Truck 2 Rail 3 Water 4 Air (include truck-air) 5 Multiple modes & mail |

Understanding Travel Behavior

 **NHTS** National Household Travel Survey
Our Nation's Travel

U.S. Department of Transportation
Federal Highway Administration

[Home](#) [Analysis Tools](#) [Documentation](#) [Publications](#) [Downloads](#) [Contact Us](#) [Search](#)

About the NHTS

- [Introduction](#)
- [FAQ](#)
- [NHTS Academy](#)
- [User's Guides](#)
- [Summary of Travel Trends](#)
- [Compendium of Uses](#)
- [Add-on Program](#)

Stay Informed

[Join the NHTS News mail list.](#)

NHTS News is a light-traffic mail list with announcements and other information of interest to the

Were you selected to be a survey participant?

National Household Travel Survey

Understanding How People Get from Place to Place



Visit the [2016 NHTS Survey website](#) to **Take the Survey**, learn more **About the Survey**, get answers to frequently asked questions (**FAQs**), and to **Contact Us**.

If you have questions or comments for our **Survey Partners** (State DOTs, MPOs, and COGs), please click [here](#).

Recent Publications

[NHTS Compendium of Uses, 2016 \(through June\)](#)

[2016 Sample Design.](#)

[2016 Retrieval Questionnaire.](#)

Trips to medical care among persons with disabilities: Evidence from the 2009 National Household Travel Survey [DOI](#) ↗

Are we there yet? [2016 NHTS announcement at transportation.gov](#) ↗.

CDC report [Active Transportation Surveillance — United States, 1999–2012](#) ↗.



What kind of data does the National Household Travel Survey Capture?

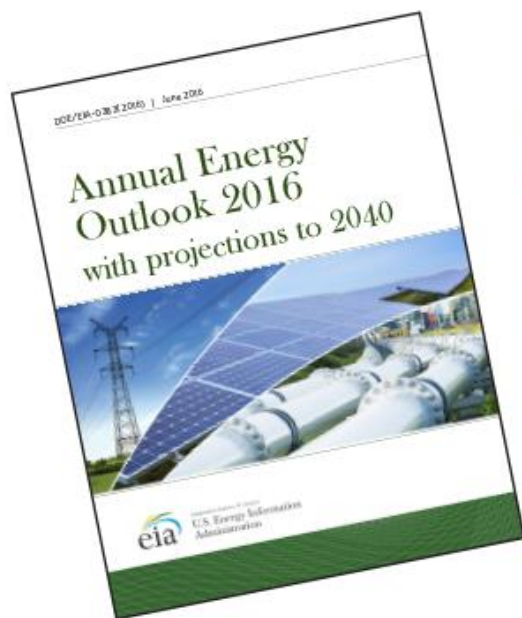
- purpose of the trip (work, shopping, etc.);
- means of transportation used (car, bus, subway, walk, etc.);
- how long the trip took, i.e., travel time;
- time of day when the trip took place;
- day of week when the trip took place; and
- if a private vehicle trip:
 - number of people in the vehicle , i.e., vehicle occupancy;
 - driver characteristics (age, sex, worker status, education level, etc.); and
 - vehicle attributes (make, model, model year, amount of miles driven in a year).



U.S. Energy Information Administration – Alternative Fuel Vehicles



The screenshot shows the top navigation bar of the EIA website. On the left is the EIA logo with the tagline "Independent Statistics & Analysis" and "U.S. Energy Information Administration". To the right are navigation links for "Sources & Uses", "Topics", and "Geography". Further right are "Tools", "Learn About Energy", and "News". A search bar contains the text "Search eia.gov" and an "A-Z Index" link. Below the navigation bar, a breadcrumb trail reads "ANALYSIS & PROJECTIONS". The main heading is "ANNUAL ENERGY OUTLOOK 2016", with subtext "Full Release Date: September 15, 2016 | Next Early Release Date: January 2017 | full report". A secondary navigation bar includes "OVERVIEW", "DATA", and "BY SECTION".



Annual Energy Outlook 2016

presents yearly projections and analysis of energy topics

[Download the AEO2016 Report](#)

Projections in the *Annual Energy Outlook 2016* (AEO2016) focus on the factors expected to shape U.S. energy markets through 2040. The projections provide a basis for examination and discussion of energy market trends and serve as a starting point for analysis of potential changes in U.S. energy policies, rules, and regulations, as well as the potential role of advanced technologies.

By Section

[Executive Summary](#)

[Preface](#)

[Market Trends](#)

[Issues in Focus](#)

- [Effects of the Clean Power Plan - 6/20/16](#)
- [Fuel Consumption and Greenhouse Gas Emissions Phase 2 Standards for Medium- and Heavy-Duty Vehicles - 6/23/16](#)
- [Extended Policies Case - 6/27/16](#)
- [Hydrocarbon Gas Liquids Production and Related Industrial Development - 7/6/16](#)
- [Steel Industry Energy Consumption Sensitivity to Technology Choice, Fuel and Carbon Prices in the Industrial Demand Module - 7/7/16](#)

[Legislation & Regulations](#)

[Comparison with Other Projections](#)

Commodity Flow Survey-partnership between the Census Bureau and the Bureau of Transportation Statistics

You are here: [Census.gov](#) > [Business & Industry](#) > [Other Economic Programs](#) > Commodity Flow Survey

Commodity Flow Survey

Main

About the Survey

Get Forms

Historical Data

How the Data are Collected

Definitions

FAQs

Public Use Microdata

GET EMAIL UPDATES

Site Resources

- [Press Release](#)

Are You In a Survey?

- [Is this form legitimate?](#)
- [Get help with your form](#)

Related Sites

- [American FactFinder](#)
- [Business Help Site](#)
- [Economic Census](#)
- [NAICS](#)
- [Bureau of Transportation Statistics](#)
- [North American Transportation Statistics Database](#)

Commodity Flow Survey

The Commodity Flow Survey (CFS), undertaken through a [partnership between the Census Bureau and the Bureau of Transportation Statistics](#) (BTS) is conducted every 5 years (years ending in "2" and "7") as part of the Economic Census. The CFS produces data on the movement of goods in the United States. It provides information on commodities shipped, their value, weight, and mode of transportation, as well as the origin and destination of shipments of commodities from manufacturing, mining, wholesale, and selected retail and services establishments.

2012 Data

New The 2012 CFS Public Use Microdata file is now available through the [Public Use Microdata](#) tab on this page.

- 2012 CFS Final estimates are now available on the [American FactFinder](#).
- For more information on metropolitan areas in the CFS, please visit the [Economic Census CFS Areas](#).
- For instructions on how to navigate through American FactFinder for the CFS: [Navigate Through AFF for CFS](#) [PDF, 2.7 MB]
- The 2012 CFS data are also available in a print report series:

[U.S. Summary Report](#) [PDF, 8.3 MB]

[U.S. Hazardous Materials Report](#) [PDF, 4.7 MB]

[U.S. Exports Report](#) [PDF, 3.5 MB]



Move to LibAnswers (SpringShare)

LibGuides ▾

Home

Content ▾

Discussions ▾

Statistics

Help

david.w.martin@dot.gov

Logout

National Transportation Library / LibGuides / LibGuides Home

LibGuides Home

Welcome to the Dashboard - your one stop shop for all things LibGuides!

Register for SpringyCamp!



REGISTER

Fall SpringyCamp
October 5-7

| | |
|---|--|
| Academic Library Track Two Day Event Oct 5 & 6 | LibGuides: Focus on Community Oct 7 |
|---|--|

Needs Your Attention

Hear that? Shhhh...all is quiet, nothing wanting your attention!

Reference Librarian



David Martin

[Email Me](#)

Contact:

1200 New Jersey Ave SE
E34-439
Washington DC 20590
202-366-0551

Springy News

- [Fall Friday Fun! A few LibGuides Updates](#)
September 30, 2016
- [LibWizard 1.7.5 Update Now Live!](#)
- [SpringyCamp Design](#) September 30, 2016
[For Your Users: Registration Now Open!](#)
(Oct 5-7) September 27, 2016
- [LibCal Equipment Booking is Here!](#)
- [Search & A-Z](#) September 13, 2016
[Management Release is Here!](#)

Knowledge Base Explorer: FAQ Entries

FAQ Entries

Statistics

Comments

Votes

Export Views by Month

Export FAQ

ID

Full Text

Internal Note

Status

All



Created

to

Owned by

View All



Topic

Choose a Topic



Filter

(Clear filter)

1

2

3

4

>

FAQ Entries 1 - 20 (of 74).

| Id | Group | Question | Owner | Created | Updated | Status | Views |
|--------|---------|--|--------------|---------------------|---------------------|-----------|----------------|
| 157403 | Default | Contact an FAA Flight Standards District Office Topics: Unassigned | David Martin | Oct 03 16, 13:46 | Oct 03 16, 13:47 | Published | 0 (monthly) |
| 157402 | Default | Interlock devices Topics: Unassigned | David Martin | Oct 03 16, 13:41 | Oct 03 16, 13:43 | Published | 0 (monthly) |
| 157400 | Default | DOT-Approved Motorcycle Helmets Topics: Unassigned | David Martin | Oct 03 16, 13:33 | Oct 03 16, 13:35 | Published | 0 (monthly) |
| 157399 | Default | Hours of Service Topics: Unassigned | David Martin | Oct 03 16, 13:26 | Oct 03 16, 13:27 | Published | 0 (monthly) |

Will enable live chat feature!

LibChat Dashboard **Chatting as:** *Dave*

Status: **Connected**

Set Away

Go OFFLINE

Don't forget to sign off of LibChat at the end of your shift/day. ✕

Chat Activity

Waiting for Visitors!

Monitored Departments

David

Staff Online

David Martin

1 minute ago



U.S. Department of Transportation
National Transportation Library

Questions?



202-366-DATA

david.w.martin@dot.gov

answers@dot.gov



U.S. Department of Transportation
National Transportation Library



U.S. Department of Transportation, National Transportation Library Data Services Update

Leighton L Christiansen [0000-0002-0534-4268](tel:0000-0002-0534-4268)
Data Curator, National Transportation Library
ntldatacurator@dot.gov



NTL Data Services

NTL Data Services include:

- **Data Public Access Guidance & Advocacy**
- **Data Management Guidance & Training**
- **Best Practices Implementation**
- **Recommendations Creation**
- **Data Curation**
- **Data Access & Preservation**
- **& more to come**



Some Key Terms

- **Data Management**¹
 - deliberate planning, creation, storage, access and preservation of data produced from a given investigation¹
- **Data Curation**²
 - enables data discovery and retrieval, maintains data quality, adds value, and provides for re-use over time²
- **Data Science**³
 - drawing useful conclusions from large and diverse data sets through exploration, prediction, and inference³



Linked Processes

Data Management \in Data Curation

Data Curation \Rightarrow Data Science



U.S. DOT Public Access Requirements

<http://ntl.bts.gov/publicaccess/>

Researchers and authors are subject to U.S. DOT Public Access requirements if:

- U.S. DOT funded scientific research;
- Newly funded or extended on or after January 1, 2016.

Researchers and authors will need to submit:

- ORCiDs
- 2 – 3 page Data Management Plan (with proposal);
- Final peer-reviewed manuscript;
- Final Digital Datasets; and,
- Any other written outputs (final reports, technical reports, tech summaries, etc.)



Public Access Guidance

http://ntl.bts.gov/publicaccess/creatingaDMP_extramural.html

United States Department of Transportation
About DOT | Briefing Room | Our Activities

OFFICE OF THE ASSISTANT SECRETARY FOR RESEARCH AND TECHNOLOGY
National Transportation Library

About NTL | Public Access | Networking | Research/Tools | FAQs | Ask-a-Librarian | Site Map

OST-R > BTS > NTL > Public Access

Creating Data Management Plans for Extramural Research

This page serves to provide guidance for how to prepare a Data Management Plan (DMP). The guidance outlined here does not constitute an approved government form or template. Those preparing DMPs for submission to the U.S. Department of Transportation (USDOT) should use their best judgment in determining what information to include. USDOT has identified five (5) broad areas that should be addressed in a DMP, but is not requiring any specific information to be included in any submitted DMP. USDOT may, at its discretion, establish an Office of Management and Budget-approved information collection. Once approved, the information collection will become a form with a control number, and certain DMP elements may become mandatory.

Data Management Plans (DMPs) Content Overview

A data management plan (DMP) describes how researchers will handle digital data both during and after a research project. DMPs will describe how the research project will be managed, including the data lifecycle, data storage, data access, data sharing, and data preservation.

5 Sections in DMP

- Data Description
- Standards Used
- Access Policies
- Re-Use, Redistribution, and Derivative Products Policies
- Archiving and Preservation Plans

Standards Used. Describe the anticipated formats that your data and related files will use. To the maximum extent practicable, and in accordance with generally accepted practices in your field, your DMP should address how you will use platform-independent and non-proprietary formats to ensure maximum utility of the data in the future. If you are unable to use platform-independent and non-proprietary formats, you should specify the standards and formats that will be used and the rationale for using those standards and formats. Identify the metadata standards you will use to describe the data.

Data Services:

Education & Cheerleading

- PA Compliance Guidance
- Data Management Planning training & consulting
- DMP Sufficiency Checklist and Training
- Data Citation Recommendations
- Best Practice sharing

Future Actions

- Data Curation & Preservation
- FAIR Data Principles
- Repository





DATA MANAGEMENT PLANNING “GREENOUT” BINGO SELF-ASSESSMENT TOOL

This tool is designed to help assess your current data management practices. Pick a dataset or research project, sit down with your data collection team, and discuss each prompt below. This tool can guide DMP improvement by revealing best practices that you are not using or information that you may not have gathered.

Using colored pencils, highlighters, or the highlighter tool in your document reader, shade your answer in each prompt-box as indicated. The greener the card, the better. But don't force it: Good data management is a process. NTL can help. Write your questions on the back, and contact us for help.

Dataset Name: _____

Evaluators: _____

Date: _____



Red: Not current practice, Unknown, or No.

Yellow: We are planning on this or are working on it.

Green: Practice enacted, or Yes.

Blue: Not Applicable.

| Data Description | Standards Employed | Access Policies | Re-use & Derivative Policies | Archiving & Preservation Plans |
|---|---|--|---|--|
| Dataset is named, well described, and linked to a research project or data program. | If data is created in proprietary formats, copies in open formats are also provided. | Data is publicly accessible. | The intellectual property rights to this dataset have been established. | A data repository dedicated to long-term preservation has been chosen for this data. |
| The types of data generated by the research or program are known. | Data formats are standard for our field. | What data will be shared, and how, is known and recorded. | Data is licensed under the most open license possible, such as Public Domain or Creative Commons 0. | A minimum data retention period has been agreed upon with chosen archive. |
| The size of data is known and organization has capacity for files. | Directory and file naming conventions are documented & used at time of data collection. | Researchers have received training to protect PII and other rights. | If there is a data embargo period, it is as short as possible. | Persistent identifiers (such as DOIs) are used to link to the data. |
| Long-term value of the data to organization and public has been discussed. | Metadata is used to contextualize the data, making it comprehensible to us and others. | Personally Identifiable Information (PII) is protected or anonymized. | Possible reuse audiences for this data, now and later, have been considered. | Back-up and disaster recovery plans are in place. |
| Parties responsible for managing data are known and listed. | Published metadata schemas are employed, & are standard to the field. | Embargo periods to protect PII and business sensitive information have been established. | Special tools needed to work with the data are documented in metadata. | Staff has been assigned to migrate data files as data formats change over time. |

In-House Training

DMP Self-Assessment

- Gives visual feedback on current state of DMP best practices
- Tested with each BTS office
- Used to begin DMP process for 2 BTS datasets
 - Transborder Freight
 - State Transportation Stats



2. Data Description:

| Data Description Narrative Evaluation Prompts | | Explained Fully | Partially Explained | No information | Not applicable |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 2.01 | The DMP names the data, data collection project, or data producing program. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.02 | The DMP describes the purpose of the research or data collection. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.03 | The DMP describes the data generated in terms of nature and scale (e.g., numerical data, image data, text sequences, video, audio, database, modeling data, source code, etc.). | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.04 | The DMP describe methods for creating the data (e.g., simulated; observed; experimental; software; physical collections; sensors; satellite; enforcement activities; researcher-generated databases, tables, and/or spreadsheets; digital data such as images and video; etc.). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.05 | The DMP discusses the period of time data will be collected and frequency of update. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2.06 | The DMP describes the relationship between the new data collected for this effort and any existing data also used.. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2.07 | The DMP lists potential users of the data. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.08 | The DMP discusses the potential value the data have over the long-term for not only U.S. DOT, but also for the public. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2.09 | If the DMP contains a request permission to not make the data publicly accessible, it explains the rationale for lack of public access. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2.10 | The DMP indicates the party responsible for managing the data. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.11 | The DMP describes how project leads will check for adherence to this data management plan. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Total of checked boxes for each column, out of 11: | | 6 | 1 | 2 | 2 |

Evaluation questions:

- Did a majority of the prompts rate “Explained Fully”?
- Do you have a complete picture of: What the data will be gathered; How much data to expect; and, Who is responsible for managing data, and how the data will be managed?

If not, this section may not be sufficiently detailed.

In-House Training

DMP Sufficiency Evaluation

- Gives quantitative feedback to bolster subjective judgement
- Precise feedback to researcher on what is missing
- Better DMPs improve likelihood of long-term data preservation for public re-use



Data on the Web Best Practices⁴

Data Description & Standards

Metadata
Data Licenses
Data Provenance
Data Quality
Data Versioning
Data Identifiers

Access Policies

Data Formats
Data Vocabularies
Data Access
Data Access APIs

Data Reuse & Derivatives

Feedback
Data Enrichment
Republication

Archiving & Preservation

Data Preservation

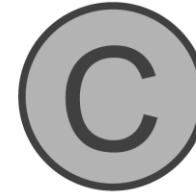
Benefits



Reuse



Trust



Comprehension



Access



Linkability



Interoperability



Discoverability



Processability

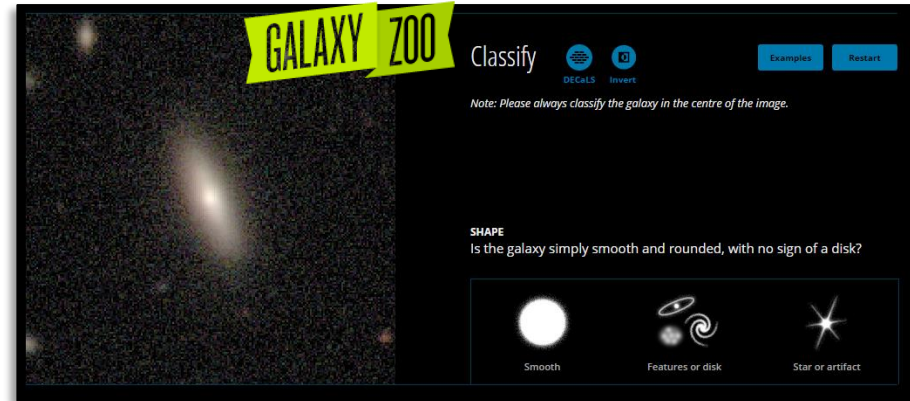
Citizen Science & Citizen *Data* Science



Students test water for FieldScope, a citizen science tool.

Photograph by Jackie Karsten, National Geographic

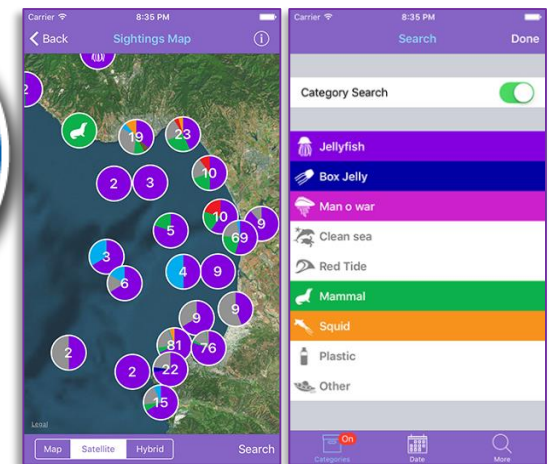
<http://nationalgeographic.org/encyclopedia/citizen-science/>



<https://www.galaxyzoo.org/>



<http://jellywatch.org/>



U.S. Department of Transportation⁶²
National Transportation Library

NTL's Repository & Open Science Access Portal (*ROSA P*)

The screenshot shows the CDC Stacks website. At the top, it says "CDC Home" and "Centers for Disease Control and Prevention". Below that is a navigation bar with "Home", "Collections", "Authors", "Recent Additions", and "Coming Soon". A search bar is present with the text "Enter keyword or phrase..." and a "Search" button. The main content area is divided into several sections: "Welcome to CDC Stacks" with a sub-header "Your digital library of public health information"; "Featured Guidelines & Recommendations" with a sub-header "Prescribing Opioids for chronic pain"; "Stay Connected" with social media icons for Facebook, Twitter, and YouTube; "Put a CDC Stacks badge on your website" with a sub-header "Over 30,000 full text articles"; "In the Spotlight" featuring "Zika Virus" with a sub-header "Visit the CDC.gov Zika page" and a list of articles; "Recently Added" with a sub-header "United States designated yellow fever vaccination centers"; "Featured Collection" with a sub-header "Health Alert Network (HAN)"; and "Most Popular" with a sub-header "Checklist for prescribing opioids for chronic pain". The footer contains contact information for the CDC and the U.S. Department of Health & Human Services, along with the text "U.S. Department of Transportation" and "National Transportation Library".

Immediate Steps

- Launch in late 2016
- Based on the CDC Public Access platform, which hosts the *CDC Stacks* and *NOAA Institutional Repository* digital libraries
- AWS cloud storage
- Publications & Data
- DOIs

Future Steps

- Trusted repository status



Community Involvement and Capacity Building

- **NCHRP 20-110 “A Guide to Ensure Access to the Publications and Data of Federally Funded Transportation-Related Research”**
- **Data Curation Curriculum for Federal Employees development (FEDLINK)**
- **RDA/NTL relationship development**
- **NISO voting members**
- **Data curation discussion group (CENDI)**
- **Public Access Speed Dating Workshop TRB 2017 (LIST)**



Questions?

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References

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2. Graduate School of Library and Information Science at the University of Illinois at Urbana-Champaign. “Specialization in Data Curation,” 2013. http://www.lis.illinois.edu/academics/programs/specializations/data_curation
3. Definition based on Ani Adhikari and John DeNero, “The Foundations of Data Science” <http://www.inferentialthinking.com/index.html> “What is Data Science” <http://www.inferentialthinking.com/chapter1/what-is-data-science.html>
4. Adapted from: W3C. 2016. “Data on the Web Best Practices.” <https://www.w3.org/TR/dwbp/>
5. National Geographic. “Citizen Science” [definition]. <http://nationalgeographic.org/encyclopedia/citizen-science/>

