Four Databases with a Common Goal: Promoting Transportation

Thursday, March 21, 2019
1:00-2:30 PM ET
Purpose
Highlight four transportation research tools: TRB’s RIP database, DOT’s Research Hub, DOT’s ROSA-P database, and TRB’s TRID database.

Learning Objectives
At the end of this webinar, you will be able to:

• Determine the appropriate research tool from TRB and U.S. DOT for identifying ongoing and published transportation research:
  – Research in Progress (RIP)
  – U.S. DOT Research Hub
  – U.S. DOT’s Repository and Open Access Portal (ROSA-P)
  – Transport Research International Documentation (TRID)

• Describe how these tools relate to one another

• Submit and/or maintain research in each database
Research in Progress (RIP) Database

Janet Daly
Indexing Manager
March 21, 2019
Research in Progress (RIP)

- Produced/maintained by TRB
- Records represent projects
  - Proposed
  - Current
  - Recently completed
- Sources:
  - USDOT
  - State DOTs
  - Universities
  - Other research orgs.
- URL: rip.trb.org
- 14,000+ records
- Publicly available
Why Use RIP?

- Prevent duplication of research
- Connect researchers
- Identify experts
- Highlight research
- Wide exposure since RIP records also in TRID
- Required for UTCs and federally funded projects
How to Search RIP

Research in Progress

RiP is the Transportation Research Board's Research in Progress (RIP) Database, containing information on more than 13,000 current or recently completed transportation research projects. RIP records primarily are projects funded by the U.S. Department of Transportation and State Departments of Transportation. University transportation research also is included in the database.

Records by Location

Find projects sponsored or performed by state DOTs
Find projects sponsored or performed by University Transportation Centers

Recent Records by Topic

Design & Construction
- Bridges & Other Structures
- Construction
- Design
- Geotechnology
- Hydraulics & Hydrology
- Materials
- Pavements

Operations & Preservation
- Maintenance & Preservation
- Operations & Traffic Management

Policy & Organization
- Administration & Management
- Data & Information Technology
- Education & Training
- Finance
- History
- Law
- Policy
- Research
- Transportation (general)

Safety, System Components, and Users

Recent Records by Mode

- All Modes
- Aviation
- Highway
- Marine Transportation
- Motor Carriers
- Pedestrians and Bicyclists
- Pipelines
- Public Transportation
- Railroads

Subscribe

Stay informed of new research!
Receive a monthly email with new research projects in your area(s) of interest.

Select topics & subscribe

Contact
Search Using Filters

Start a search.
Please begin your search by using the Keyword field above or by entering terms in the filters pane.

Keywords

Title

Subject Areas
- Administration and Management
- Aviation
- Bridges and other structures
- Construction

Match Any Subject Listed
Match All Subjects Listed

Contract or Grant Numbers

Status
- Active
- Completed
- Programmed
- Terminated
- Proposed
- Inactive

Source
- All sources

Location (by state)

Index Term

Organization

Person

Select Date Range
- 1 Mo
- 1 Yr
- 5 Yr
- All
- Custom

Date Range Type
- Project Start Date
- Project End Date
- Record Created Date

Sort By
- Start Date
- End Date
- Created Date
- Title
- Status

Sort Order
- Descending
- Ascending
Development of Superpave 5 Asphalt Mix Designs for Minnesota Pavements

The objective is to build upon the preliminary results of a current project, in which the compaction process of HMA is investigated through a combined experimental and computational approach, and develop Superpave 5 mix designs for various traffic levels using local aggregates specific to Minnesota projects. It is expected that at the end of the project, a number of Superpave mix design will be developed for implementation in new construction projects including test sections at MinROAD facility.

Language

English

Project

Status: Programmed
Contract Numbers: 1003325 W02#106

Sponsor Organizations:
Minnesota Department of Transportation
355 John Ireland Boulevard
St Paul, MN 55155

Performing Organizations:
University of Minnesota Department of Civil, Environmental
and Geo-Engineering
500 Pillsbury Drive SE
Minneapolis, MN 55455

Principal Investigators:
Mrozczek, Mikhail

Start Date: 20190701
Expected Completion Date: 0
Actual Completion Date: 0

Subject/Index Terms

TRT Terms: Hot mix asphalt; Pavements; Superpave
Subject Areas: Materials; Pavements;

Filing Info

Accession Number: 01691199
Record Type: Research project
Source Agency: Minnesota Department of Transportation
Contract Numbers: 1003325 W02#106
Files: RIP, STATEDOT
Created Date: Jan 23 2019 2:50PM
How to Enter Projects

• Primarily entered by DOT or UTC staff
• Password required
• Record updated as project progresses
• Record deleted when project is completed and final report is in TRID
• Federally-funded projects imported into USDOT ResearchHub
Want to learn more?

August 22, 2018 webinar:
Research in Progress Database: Entering Projects and Searching Records.
Recording at https://vimeo.com/286334516

Janet Daly
jdaly@nas.edu
USDOT Research Hub

OST-R Office of Research Development and Technology

Research Coordination Director: Alasdair Cain
Research Hub Program Manager: Beyan Johnson
Background

• Launched in 2012
• USDOT Funded Research
• Project records date back to 2008
• Policies and Legislation
  • Public Access Plan (https://ntl.bts.gov/public-access)
    • “Once the Public Access Plan is implemented, the USDOT Research Hub will serve as the linking mechanism for scientific publications and their underlying research data by requiring that links to digital data sets (as referenced in the DOT Public Data Listing) are submitted along with other project deliverables as part of the project close-out process”
  • Fixing America Surface Transportation Act
    • “SEC. 6502. CONSOLIDATED RESEARCH DATABASE”
1st Generation
2nd Generation (Current)
Research Hub Connections

**TRB**
- RIP Search
- RIP
- TRID
- TRID Search

**Other Internal data Sources**

**TRB RiP Data Collection**

**USDOT**

**Research Hub Index**

**Current Research Hub Data Collection**

**ROSAP**
- ROSAP Search

**TRB RiP**

**Other Internal data Sources**

**TRB RiP Data Collection**

**Current Research Hub Data Collection**

**Research Hub Search**

Connections:
- (1) TRB RiP Data Collection ➔ USDOT Research Hub Index
- (2) USDOT Research Hub Index ➔ USDOT TRID
- (3) USDOT TRID ➔ USDOT Current Research Hub Data Collection
- (4) USDOT Current Research Hub Data Collection ➔ USDOT ROSAP
- (5) USDOT ROSAP ➔ USDOT Current Research Hub Data Collection
- (6) USDOT Current Research Hub Data Collection ➔ USDOT TRB RiP Data Collection
- (7) USDOT TRB RiP Data Collection ➔ USDOT Other Internal data Sources
Research Hub Data Connections

- NTL Database (5)
  - [https://rosap.ntl.bts.gov/welcome](https://rosap.ntl.bts.gov/welcome)
  - Link to Publications

- Transportation Research Board – Research in Progress (RiP) database (2)(3)(6)(7):
  - [https://rip.trb.org/](https://rip.trb.org/)
  - Weekly download
  - University Transportation Center (UTC) Records
  - New USDOT projects as mentioned in USDOT Public Access Plan
  - Cooperative Research Programs

- Research Hub Annual Refresh (1)(6)(7):
  - Performed Annually
  - Various data sources
  - Modal partners submit updates
Next Steps

• What’s next for the Research Hub?
Thank you

Questions/Comments?
National Transportation Library: ROSA P

Mary Moulton, Digital Librarian  0000-0002-1791-068X
US DOT National Transportation Library

TRB Webinar
Four Databases with a Common Goal: Promoting Transportation Research
March 21, 2019
ROSA P: Repository and Open Science Access Portal

ROSA P honors the role public transportation played in the civil rights movement, and also one of the important figures, Rosa Parks

ROSA P: https://rosap.ntl.bts.gov/

LOC Prints and Photographs Division: http://www.loc.gov/rr/print/list/083_afr.html#ParksR
About the National Transportation Library

• Established in 1998 by the **Transportation Equity Act for the 21st Century** (TEA-21; P.L. 105-178)
• Administered by the Bureau of Transportation Statistics
• NTL provides access and support to:
  – Digital collections
  – Data services
  – Reference and research services
  – Transportation knowledge networks
NTL and MAP-21 [49 USC 6304]

• 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
Public Access

• **White House Office of Science and Technology Policy memo (2013)** requires 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.

• NTL leads implementation of US DOT’s Public Access Plan [https://ntl.bts.gov/public-access](https://ntl.bts.gov/public-access)

• We are an open access digital repository. All items are in the public domain and available for reuse without restriction.
Repository Features

- Open source platform
  - CDC Stacks platform (Islandora/Drupal/Fedora)
- Cloud storage – stable and responsive
- Revised metadata accommodates public access documents and linked open data
- Indexed by Google Scholar, TRID, Worldcat, and Science.gov
Collection Overview

- Full-text digital archive for all modes of transportation and related disciplines
- 37,000 digital objects
  - Born digital objects submitted to NTL by content creators or owners
  - Reborn digital copies of physical objects, digitized at the request of NTL
- DOIs minted for every US DOT report and dataset in NTL repository
Acquisitions

• NTL Digital Submission [NTLDigitalSubmissions@dot.gov]
  – US DOT agencies
  – State, metropolitan, local and tribal agencies
  – Federal agencies
  – University transportation centers
  – Professional organizations and private sector sources
• Digitization of legacy print materials
• Archive-It web archiving
Accessibility

• Wherever possible, digital collections are in non-proprietary open formats
  – Documents that are no longer accessible are migrated to a new format to preserve intellectual content

• NTL follows the final Federal rule (83 FR 2912) for the ICT Refresh under ADA Section 508
  – All public facing submissions published on or after March 23, 2018 must be accessible
Cost effective wildlife crossing structures which minimize the highway barrier effects on wildlife and improve highway safety along US 64, Tyrrell County, NC. FHWA/NC/2009-26. 2011.
Basic Search

- Choose collection to search
- Enter search term
- Select Search
Basic Search Results

- Refine search results by Resource Type, Subject and keyword
- Sort by Relevance, Date
- Export citations to reference management software
Advanced Search

- Limit by: Collection
- Select up to 3 Search Categories:
  - Title
  - Abstract
  - Personal Creator
  - Corporate Creator
  - Publication Date
  - DOI
  - Contract Number
  - Report Number
  - Keywords
Advanced Search: Example

- **Collection**: BTS Data Directory
- **Title**: passenger
- **AND**
- **Publication Date**: 1990 to 2000
- **Results**: Page 1 - 11 PDFs
  - Research Papers
  - Tech Reports
  - Journal Articles
  - Datasets

Future Improvements

• ROSA P enhancements
  – Additional citation export formats
  – Audio/video viewer
  – Canned searches

• Metrics dashboard and user generated reports

• Form-based digital submissions

• Semantic indexing
Questions or comments?

- **Mary Moulton**
  - [mary.moulton@dot.gov](mailto:mary.moulton@dot.gov)
  - 202-366-0303

- **Ask-a-Librarian**
  - [Answers@dot.gov](mailto:Answers@dot.gov)
  - 1-800-853-1351
Transport Research International Documentation (TRID) Database

Bill McLeod
Manager, Transportation Research Information Services
March 21, 2019
1. Free on TRB’s web site at: trid.trb.org
   Free to access/search
   Free to export records

2. The world’s largest, most comprehensive bibliographic resource on transportation research with almost 1.2 million records

3. Authoritative: all content is curated for its relevance to transportation

4. Maintained by the Transportation Research Board (TRB)
RIP and TRID

• Project records submitted in RIP are automatically searchable through TRID
• Searchers can limit TRID to project records
• TRID searches both publications and projects by default
Limiting to project records

- Click ‘add additional filters’ on the TRID home page to access advanced search features.
- Use the Result Type dropdown to select ‘Only projects’
Adding final reports to TRID

• As agencies publish reports from federally funded projects, they should notify TRIS (tris-trb@nas.edu)

Adding final reports to TRID

Or use the ‘Submit Publication’ form from the TRID home page:
Submit Publication form in TRID

Submit A Publication

Please fill out the form below to submit a publication to TRID.

Submitter's Information

Full Name*: 
Organization*: 
Email Address*: 

Record Information

Corporate Author/Publisher: 
Title*: 
URL of Publication*: 

☑️ Permission is given to digitally archive this document at the National Transportation Library

Submission

Comments: 

☐ I'm not a robot

[reCAPTCHA]

Submit
TRID and ROSA-P

• All report submissions from State DOTs and University Transportation Centers are shared with NTL for ingestion in ROSA-P:  https://rosap.ntl.bts.gov/

• We later add the ROSA-P link to the record for each publication we forwarded to NTL
  – NTL shares a weekly spreadsheet with TRIS comprised of new additions to ROSA-P
  – Not everything in ROSA-P gets indexed in TRID
Indexing reports in TRID

• All report submissions are entered into our TRIS Data Entry system and assigned for indexing within 1 business day of receipt

• It generally takes up to a couple of weeks to publish records depending on volume at any given time

• All publications are professionally indexed
  – TRB Subject areas
  – Usually 4-6 terms from the Transportation Research Thesaurus (TRT): http://trt.trb.org
Limiting to DOT and UTC reports

In search filters use the Source drop-down to limit to:

- UTC – University Transportation Centers
- USDOT – US Federal Department of Transportation
- STATEDOT – US State Departments of Transportation

Only one Source can be selected at a time.
TRID Gives You a Head Start

Quality in, quality out

- TRB/HRB publications back to 1922
- AASHTO publications
- Federal/State DOT reports
- University Transportation Center (UTC) reports
- Research in Progress (RIP) project records
- Commercial journal literature: SAE, ASCE, IEEE, Elsevier, Springer, Taylor & Francis, Sage, just to name a few
- Conference proceedings
- International coverage: ITRD (Europe), ATRI (Australia), J-STAGE (Japan)
  - Records in German, French and Spanish

Content is curated, or chosen for academic and intellectual rigor, ensuring high quality information from peer-reviewed journals, conference papers, government publications.
Benefits of using TRID

For publishers/producers:
• Wider dissemination of Federal/State/UTC reports
• Long-term access to records

For searchers/researchers:
• Locate solutions to problems
• Avoid duplication of work and save resources
• Encourages and facilitates cooperation and partnership
• Identify practitioners and experts in specific research areas
• Links to full text (free or fee-based) are included when available: Instant gratification!
• Screens out commercial content
• Authoritative, curated resource devoted entirely to all modes of Transportation Research
More questions about TRID or RIP?

Check out:
Online Documentation & Training Materials:  
http://www.trb.org/InformationServices/ResourcesfortheTRISDatabases.aspx

Frequently Asked Questions:  
https://trid.trb.org/faq

Or email us at: tris-trb@nas.edu
Today’s Speakers

• Elaine Ferrell, TRB, eferrell@nas.edu
• Janet Daly, TRB, jdaly@nas.edu
• Beyan Johnson, USDOT, beyan.johnson@dot.gov
• Mary Moulton, USDOT, mary.moulton@dot.gov
• Bill McLeod, TRB, wmcleod@nas.edu
Webpages

• TRID: https://trid.trb.org/
• RIP: https://rip.trb.org/
• DOT Research HUB: https://researchhub.bts.gov/search
• ROSA-P: https://rosap.ntl.bts.gov/
Get Involved with TRB

• Getting involved is free!
• Join a Standing Committee (http://bit.ly/2jYRrF6)
• Become a Friend of a Committee (http://bit.ly/TRBcommittees)
  – Networking opportunities
  – May provide a path to become a Standing Committee member
• For more information: www.mytrb.org
  – Create your account
  – Update your profile
TRB turns 100 on November 11, 2020

Help TRB:
- Promote the value of transportation research;
- Recognize, honor, and celebrate the TRB community; and
- Highlight 100 years of accomplishments.

Learn more at www.TRB.org/Centennial

MOVING IDEAS: ADVANCING SOCIETY—100 YEARS OF TRANSPORTATION RESEARCH

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

TRANSPORTATION RESEARCH BOARD