# LTPP InfoPave™

**The Web-centric interface for the LTPP Information Management System (IMS) provides a powerful and flexible tool that enables users of all levels—professionals, researchers, and students—to view, visualize, extract, and employ LTPP data.**

The LTPP program was initiated in 1987 to satisfy a wide range of pavement information needs. Over the years, the program has accumulated a vast repository of research-quality data, extensive documentation, and related tools, which compose LTPP's comprehensive information management system (IMS). The LTPP IMS is comprised of two major components, the Pavement Performance Database (PPDB) and the Ancillary Information Management System (AIMS). The PPDB houses the comprehensive dataset collected throughout the life of the pavement test sections. AIMS is a central electronic repository that has information such as raw data, images, reference materials, resource documents, and other artifacts that support and extend the data stored in the PPDB. In addition, the LTPP program maintains a comprehensive reference library with more than 1,200 research reports, tech briefs, and program documents in electronic format that explain how the data are collected, processed, and stored. The LTPP IMS is the premier product of the LTPP program and will be used for research, pavement design, and product development for decades to come.

The data and information in the LTPP IMS were made available via the Web through the data portal system, LTPP InfoPave™, in January 2014. InfoPave is the public gateway to access data and other information about the LTPP program. Since then, several additional features as well as feature enhancements have been performed resulting in an enhanced yet simplified user interface. By using the latest methodologies in computer technology, this Web-centric interface is designed to improve access to LTPP data. In addition to providing access to LTPP data, the interface also provides information, education, and tools to maximize the use of available data.

| Data | Visualization | Analysis | Tools | Library | Operations | Non-LTPP |

LTPP InfoPave includes creative tools for data viewing, identification, and selection that helps users create their own personalized data sets, summary reports, queries, and much more. It gives users the ability to share data selections, views, or queries with other users, which can exponentially improve LTPP data usage across geographic boundaries and time zones. With LTPP InfoPave, data are at users' fingertips, allowing them to obtain the right data efficiently and extract practical information regarding pavement engineering and management.

For more information about LTPP InfoPave or the LTPP program, contact the LTPP Customer Support Service Center at 202–493–3035 or ltppinfo@dot.gov.

**LTPP InfoPave can be accessed at https://infopave.fhwa.dot.gov.**

Release 2018 - An Enhanced and Simplified User Interface

# LTPP InfoPave™

**https://infopave.fhwa.dot.gov**

## Knowledge into Action...
## Performance Data for Pavement Innovation

### About LTPP

The Federal Highway Administration Long-Term Pavement Performance (LTPP) program collected a large amount of research quality pavement performance information. Below documents provide an overview of LTPP and this web portal.

- LTPP Program Brochure
- InfoPave™ Brochure
- LTPP IMS User Guide
- LTPP Book

**View More**

### Select and Download Data

Select and Download Data is a feature where all the data tables are organized hierarchically under Structure, Climate, Traffic, and Performance categories.

### Map LTPP Sections

The *Map* feature displays LTPP pavement test sections geographically for data presentations, analysis, or section detail information.

| LTPP Climate Tool | LTPPBind Online | Section Summary Report | Trend Analysis | Reference Library | Non-LTPP Data |

**U.S. Department of Transportation**
**Federal Highway Administration**

LTPP™

The Federal Highway Administration (FHWA) Long-Term Pavement Performance (LTPP) program's web portal—LTPP InfoPave™—facilitates access and analysis of LTPP and other pavement performance data through a variety of online data selection applications and data viewing tools. These are organized into hubs and each hub contains features. The following are key hubs and features of the web portal:

## Home

The Home hub has the most-used features in LTPP InfoPave. These are *About LTPP, Map LTPP Sections,* and *Select and Download Data.* At the bottom of the hub is a rotating list of popular features of the website for easy use and reference.

## Data

The Data hub is the primary data processing and extraction functionality of the portal. It includes *Data Selection and Download*—the primary means to explore, select, and extract LTPP data. Users can also download Section Summary Reports, State/Province Summary Reports and for those who are database proficient, a copy of the Standard Data Release containing all LTPP data. This hub also has the functionality to use Structured Query Language scripts and other tools for advanced users.

## Visualization

The Visualization hub houses several tools to view LTPP data in an innovative and modern way not possible using flat data files. LTPP Section Mapping displays LTPP pavement test sections geographically for data review, presentation, and analysis while the Section Timeline feature presents information on a test section using a chronological format. You can view Section Inspection Videos, Distress Maps, and even a Virtual Section which provides a walking tour of the test section from an overhead perspective through this hub.

## Analysis

The Analysis hub is where researchers can learn about LTPP data analyses and explore trends and correlations in the data. This hub provides material such as LTPP Literature References and an interactive program that allows users to explore the LTPP data analysis plan. Users can immerse themselves in the data by using the Correlation Analysis and Trend Analysis tools, the interactive Data Availability Chart or the Geospatial Analysis feature.
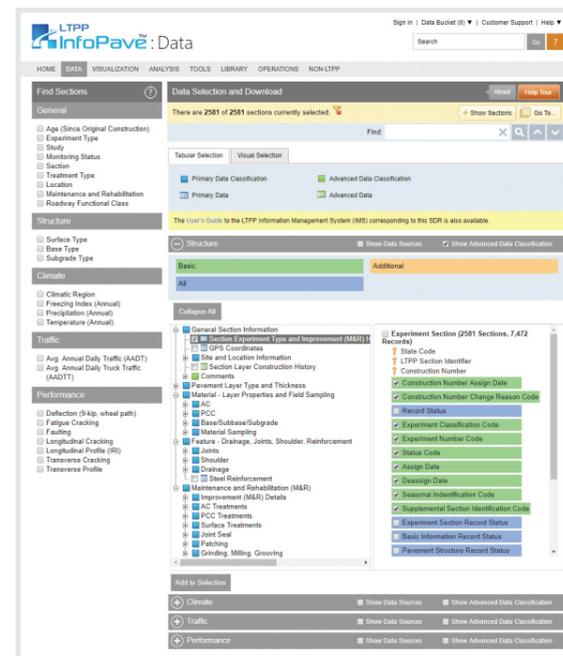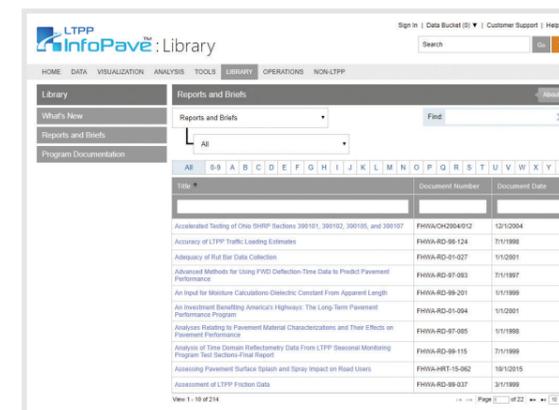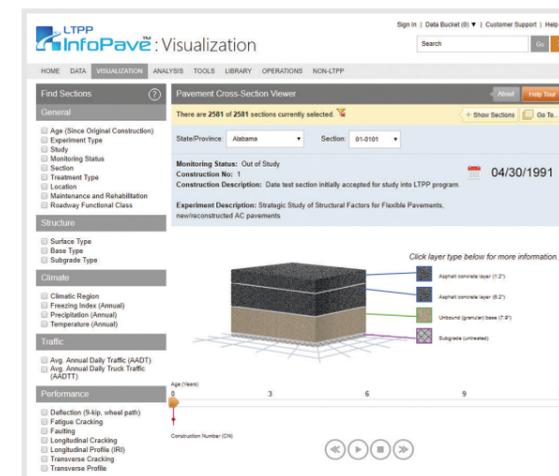


*Select and Download Data*
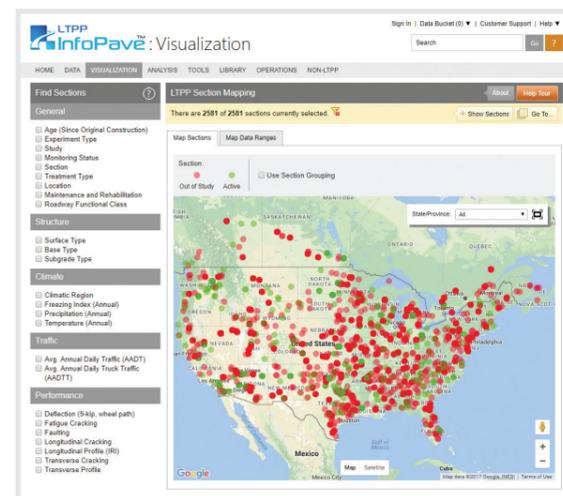


*Map LTPP Sections*
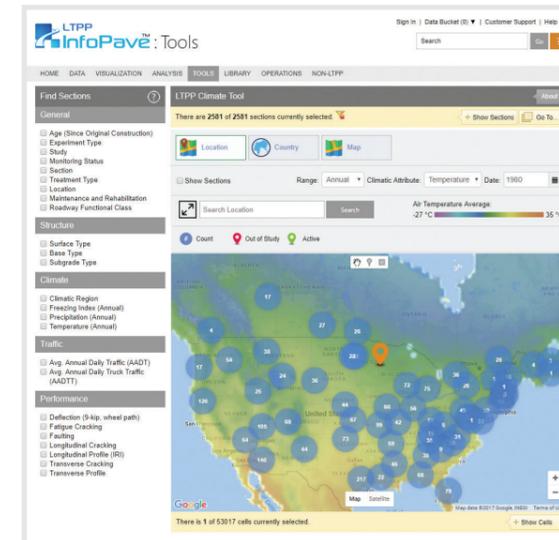


*LTPP Climate Tool*



*Reference Library*



*Pavement Cross-Section and Distress Data*

## Tools

The Tools hub is a collection of LTPP applications that touch on all aspects of pavement engineering. This includes, among others:

- Mechanistic-Empirical Pavement Design - LTPP Dynamic Modulus Prediction, MEPDG Inputs for Local Calibration, Pavement Loading User Guide, and MERRA Climate Data for MEPDG.

- Asphalt Mixture Design - LTPPBind Online tool.

- General Climate Information - LTPP Climate Tool.

- Design of Rigid Pavement - American Association of State Highway and Transportation Officials (AASHTO) 1998 Rigid Pavement Design.

## Reference Library

The Reference Library hub is a repository of LTPP operational documents, data collection guides, test protocols, manuals, research reports, tech briefs, and other program documents. The library is organized in categories for easy access. Users can also search by keywords to quickly locate documents of interest to them.

## Operations

The Operations hub provides information on daily program activities. It offers access to the data collection schedule, a database of the Materials Reference Library assets available to researchers, and LTPP Directives.

## Non-LTPP

The Non-LTPP hub provides access to data sources other than LTPP that can be used in pavement engineering and research. It currently includes data from the Canadian LTPP database, WesTrack, Interstate Condition Sampling Data, and FHWA Rigid Pavement Performance and Rehabilitation program, with more datasets to be added in the future.

## Ancillary Information Management System (AIMS)

While not a hub of its own, integrated throughout the web portal is access to the vast repository known as AIMS. Ancillary information includes data, images, reference materials, resource documents, and other information that support and extend the data stored in LTPP InfoPave. It includes items such as distress images, data entry forms, 25 mm (1 inch) spacing raw profile data, raw falling weight deflectometer data files, and per vehicle record traffic data, to name just a few.