



U.S. Department of Transportation
Federal Highway Administration

PRODUCT BRIEF

DataPave: User-Friendly Access to LTPP Data

Introduction

For more than 10 years, State and Provincial highway agencies have been collecting data from thousands of Long Term Pavement Performance (LTPP) experiments across the United States and Canada. Now, a CD-ROM software package—called DataPave—brings this data, along with a set of tools for searching, viewing, and manipulating the data, to the desktop. Simple and easy-to-use, DataPave unlocks the potential of LTPP data for the development of products to improve pavement technology.

What Is DataPave?

DataPave is a simple, user-friendly software package that contains most of the data currently available from the LTPP experiments on a CD-ROM. These data include inventory, material testing, pavement performance monitoring, climatic, traffic, maintenance, rehabilitation, and seasonal testing data from approximately 2,400 pavement test sections at 900 locations on in-service highways throughout North America. All of the data on the CD-ROM have gone through LTPP's quality-control procedures and the package has been extensively

tested to ensure that it will work on all computers using the Microsoft Windows® 95 or Windows® NT operating systems.

DataPave Tools/ Features

In addition to the actual data from LTPP experiments, DataPave provides users with all the tools needed to examine and work with the data. After starting the program, users can select the data they want to view via the DataPave Section Selection process—either by experiment site or by panning and zooming through maps of the United States and Canada.

After selecting the site, users can view the data via specially designed modules. These include:

- ▶ Map module that displays general information for all LTPP test sections in Geographical Information System map form.
- ▶ Section Presentation module that provides specific information regarding the location, experiment type, pavement layer, and selected falling-weight deflectometer (FWD) profiles.

- ▶ Chart/Trend module that presents time histories of several key distress indicators.
- ▶ Data Base Exploration and Extraction module that enables data extraction of the appropriate tables and fields of the selected sections. A keyword option is also available in this module.

Data files from the DataPave data base can also be searched using sophisticated structured query language (SQL) via an SQL data extraction option.

DataPave System Requirements

To install and run DataPave, the following minimum hardware and software requirements are necessary:

- ▶ IBM-compatible PC with a 486 or faster microprocessor, a mouse, and a CD-ROM.
- ▶ Windows® 95 or Windows® NT 3.51 or higher.
- ▶ At least 80 megabytes (Mb) of free hard-disk space.
- ▶ At least 12 Mb of RAM (16 Mb recommended).
- ▶ Display resolution of 800 by 600 dpi.

Who Can Benefit From DataPave?

The principal stakeholders in and contributors to the LTPP project—the State/Provincial roadway agencies—will benefit most directly and immediately from DataPave. Others whose work DataPave will facilitate include industry, academia (faculty and students), highway-related agencies [e.g., American Association of

State Highway and Transportation Officials (AASHTO), Federal Highway Administration (FHWA), and Transportation Research Board (TRB)], and the international highway and transportation community. In the long run, the research and product development that DataPave makes possible will benefit everyone with a stake in the design, construction, maintenance, and rehabilitation of roadways.

Contact Information

For additional information on DataPave, log onto LTPP's web site (www.tfhrc.gov/pavement/ltppltppl.htm) or contact the LTPP Customer Relations Center by telephone: (865) 481-2967; fax: (865) 481-8555; or e-mail: ltppltpplinfo@fhwa.dot.gov.

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