



- Effective pavement management provides the right treatment at the right time.
- Maintain your streets like you would maintain your house.
- Balance preservation with replacement of existing streets.
- Pavement management systems can take the headache out of your agency's State & Federal reporting requirements.
- Pavement management can more effectively maintain your assets.

Join the T2PAVE Listserv to ask pavement management questions and exchange information with our colleagues through e-mail.

<<http://listserv.wa.gov/cgi-bin/wa?SUBED1=T2PAVE&A=1>>

Who are we?

The Northwest Pavement Management Association is a nonprofit organization with professional and technical representatives from both public and private sectors. Members have interests and responsibilities in the systematic preservation and restoration of public street or road pavements.

Our purpose is to:

- Foster mutual and beneficial relationships among members and with allied agencies, institutions, organizations, and business firms.
- Improve the ability of the members to manage their pavements effectively and efficiently.
- Promote pavement management technology transfer, research, and education.
- Provide a forum for the open exchange of ideas relative to pavement management systems.

Want to learn more? Attend the NWPMA Annual Conference!

- Learn innovative and cost effective strategies to maintain your road work.
- Learn about new pavement preservation techniques.
- Network with other agencies and local vendors.
- View technical presentations from past events.
- Links to pavement management resources.

For conference dates and registration information please visit our website:
<http://www.nwpma-online.org/>

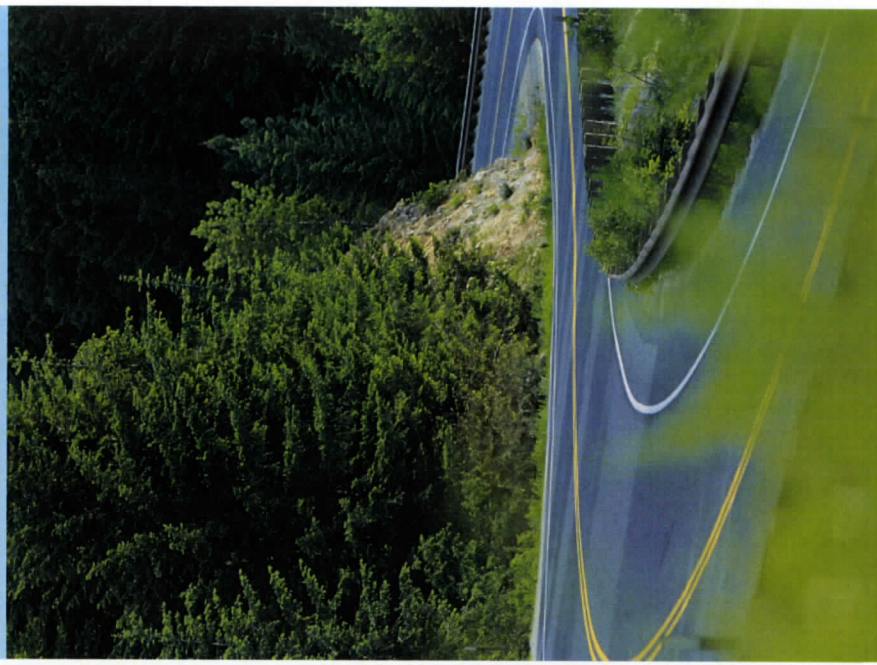


U. S. Department of Transportation
Federal Highway Administration



Washington State
Department of Transportation

Managing Your Agency's Road Infrastructure



What is

Pavement Management?

Pavement management is the process of overseeing the maintenance, rehabilitation and preservation of street assets. Effective pavement management incorporates life-cycle costs, needs of the road network, and budget projections to systematically identify maintenance and rehabilitation projects.

A Pavement Management System (PMS) can range from a simple binder that contains information on your existing street network, to a complex computer program that allows you to run budget scenarios and output graphics for presentations. Essentially, a PMS is a tool that allows you to collect, store and retrieve information about your system while extending your maintenance dollars. Public agencies with a PMS in place can manage their pavements more effectively.

Pavement management can assist you in overseeing your agency's pavement infrastructure by recommending the proper treatments at appropriate times. Pavement management will preserve your assets and save your agency money.

What can a PMS provide?

- Your agency's road network could be divided into segments by surface type and construction age.
- Maintenance and rehabilitation history.
- Pavement condition data indicating the type, severity, and amount of distress.
- An asset inventory of your road system.

PMS can perform a variety of tasks including:

- Calculating Pavement Condition Indices (PCI).
- Running needs and budget scenarios.
- Recommending streets for surface treatments.
- Generating reports for the decision makers.



Maintain your roadways... like you maintain your house!

Why is maintenance of a road important? Think of it in terms of house maintenance.

If you routinely caulk the seams and repaint the siding of a house, the siding will last longer because it is better protected from the weather. Crack sealing a roadway has the same effect as caulking your siding. Slurry seal, which is a thin layer of emulsion/oil and sand, is like painting your siding. These are relatively inexpensive, preventative maintenance procedures.

Conversely, if you don't perform preventative maintenance, the siding on your home will eventually rot and you are forced to expend significant funds to replace the siding. Our roads are no different! If roads are not maintained, we must replace the surface of the road by overlaying it with a new layer of asphalt. If you don't replace the siding when it fails, water eventually will get under your siding and damage the structure of your house. For roads, it means rebuilding the street and replacing the rock that is below the asphalt. This can be very costly.

House

- Caulking seams/joints
- Painting
- Replace siding
- Replace wall

Road

- Crack sealing
- Slurry seal or chip seal
- Overlay road
- Rebuild road

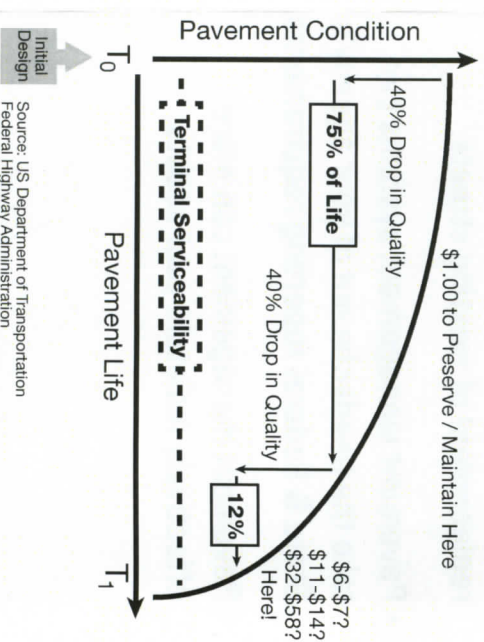
Why is Pavement Management Important?

Streets are a vital asset to all communities, and infrastructure this important should be carefully preserved and maintained.

Pavement Management Programs seek to balance preservation with replacement of existing surfaces. The most cost-efficient way to correct any street surface problem is to address issues when they first appear. That is why funds are targeted at streets rated in fair-to-good condition. Without this preventative maintenance, these streets would quickly deteriorate and be much more costly to fix.

The "pavement life curve", shown below, illustrates this point. Pavement may appear to be in good condition for a long time. However, when it fails, it fails quickly and repair costs increase dramatically. Preventative maintenance, such as slurry seals, extends the life of our valuable street system. In addition to lowering costs over time, other advantages include: more predictable funding needs, fewer premature pavement failures, safer road conditions and reduced time spent in traffic due to construction.

Performance Curves / Costs of Repairs



This example illustrates that the maintenance of a road in a timely manner is more efficient and cost effective.