Pavement Management System

El Dorado County Department of Transportation

Program Mission

Inspect and evaluate all County maintained roads that are surfaced. Utilize newly purchased software to provide clear, concise roadway condition data to decision makers. Utilize newly purchased software to build inventory of all roadway appurtenances.

Why Perform Pavement Management?

To maintain an inventory of County infrastructure assets and possibly open new funding streams for roadway maintenance work.
 To allow the BOS to make informed decisions about which roads should receive work
 Pavement Condition Index (PCI) – from pavement management inspections
 Average Daily Trips (ADT) – from traffic counts

What Do We Have?

 Inventory breakdown of the 1,079 miles of County maintained roads:

 433 miles of asphalt concrete
 586 miles of surface treatment (chip seal)
 60 miles of unsurfaced/gravel/dirt roads (not inspected as part of pavement management)
 Total surfaced road mileage: 1,019 miles

Types of Surfaced Roads

Local Roads ("twigs")

- 1,717 roads, 576 miles
- Examples: Sandridge Road, Toronto Road, Oak Hill Road, Coon Hollow Road

Collector Roads ("branches")

- 27 roads, 122 miles
- Examples: Malcom Dixon Road, South Shingle Road, Deer Valley Road

Arterial Roads ("trunks")

- 72 roads, 321 miles
- Examples: Green Valley Road, Pleasant Valley Road, Lotus Road

Frequency of Inspections

The Caltrans Local Assistance Procedures Guide states that County eligibility for Federal preventative maintenance funding requires roads to be inspected as follows: Arterials and Collectors: Every two years Local Roads: Every two years Cost per year (labor, equipment, etc.): \$170,000 Average yearly pavement management budget over last 10 years: \$98,620.45

Funding for Pavement Management

DOT's Construction Division performs PCI inspections

- Good winter work when construction projects slow down
- Most work performed by Senior Engineering Technicians
- Due to budget constraints and the use of old, inefficient software, DOT has been unable to maintain either of the biennial inspection frequencies cited above.
- Funding for DOT's Pavement Management Program comes from DOT's Road Fund.

In order to provide funding for Pavement Management without decreasing funds available for other activities supported by the Road Fund (e.g., chip seal, ditching, brushing, etc.), an increased contribution (~\$100K per year) to the Road Fund from the General Fund or other funding sources would be required.

Streetsaver

DOT has recently upgraded its pavement management software (~\$10,000) We are currently in the process of transferring our data from the old system to the new system We will soon have the ability to provide several graphical presentations of our roadways.

Streetsaver Demonstration

Future Possibilities

As funding allows, DOT will be working to expand the inventory entered in the new software to include the following:

- Traffic Signals
- Culverts
- Drainage inlets
- Sidewalk
- Curb/gutter
- Lighting
- Signs