



Standard Guide for Prioritization of Data Needs for Pavement Management¹

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1. Scope

1.1 This guide identifies data needs for pavement management systems. It also addresses the relative importance of various types of pavement data.

1.2 This guide was developed for use by federal, state, and local agencies, as well as consultants who provide services to those agencies.

1.3 This guide describes a process and provides a set of recommendations that any agency may use to develop a plan for acquiring pavement management data. Any individual agency may justifiably assign higher or lower priority to specified data items depending on their needs and policy.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

- D3319 Practice for the Accelerated Polishing of Aggregates Using the British Wheel
- D4123 Test Method for Indirect Tension Test for Resilient Modulus of Bituminous Mixtures (Withdrawn 2003)³
- D4602 Guide for Nondestructive Testing of Pavements Using Cyclic-Loading Dynamic Deflection Equipment
- D4694 Test Method for Deflections with a Falling-Weight-Type Impulse Load Device
- D4695 Guide for General Pavement Deflection Measurements

¹ This guide is under the jurisdiction of ASTM Committee E17 on Vehicle - Pavement Systems and is the direct responsibility of Subcommittee E17.42 on Pavement Management and Data Needs.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

- D4748 Test Method for Determining the Thickness of Bound Pavement Layers Using Short-Pulse Radar
- D5340 Test Method for Airport Pavement Condition Index Surveys
- D6433 Practice for Roads and Parking Lots Pavement Condition Index Surveys
- E274 Test Method for Skid Resistance of Paved Surfaces Using a Full-Scale Tire
- E303 Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester
- E445/E445M Test Method for Stopping Distance on Paved Surfaces Using a Passenger Vehicle Equipped With Full-Scale Tires
- E501 Specification for Rib Tire for Pavement Skid-Resistance Tests
- E503/E503M Test Methods for Measurement of Skid Resistance on Paved Surfaces Using a Passenger Vehicle Diagonal Braking Technique (Withdrawn 2010)³
- E524 Specification for Smooth Tire for Pavement Skid-Resistance Tests
- E556 Test Method for Calibrating a Wheel Force or Torque Transducer Using a Calibration Platform (User Level)
- E660 Practice for Accelerated Polishing of Aggregates or Pavement Surfaces Using a Small-Wheel, Circular Track Polishing Machine (Withdrawn 2006)³
- E670 Test Method for Testing Side Force Friction on Paved Surfaces Using the Mu-Meter
- E770 Test Method for Classifying Pavement Surface Textures (Withdrawn 1991)³
- E867 Terminology Relating to Vehicle-Pavement Systems
- E950 Test Method for Measuring the Longitudinal Profile of Traveled Surfaces with an Accelerometer Established Inertial Profiling Reference
- E965 Test Method for Measuring Pavement Macrotexture Depth Using a Volumetric Technique
- E1082 Test Method for Measurement of Vehicular Response to Traveled Surface Roughness
- E1166 Guide for Network Level Pavement Management
- E1170 Practices for Simulating Vehicular Response to Longitudinal Profiles of Traveled Surfaces
- E1215 Specification for Trailers Used for Measuring Vehicular Response to Road Roughness