

Enhanced Statewide and Independent Assurance Testing for Dynamic Modulus of NMDOT Superpave Hot Mix Asphalt Mixes for the Implementation of MEPDG NM12SP-02

Budget: \$450,000 **Duration:** 48 months

Project Summary

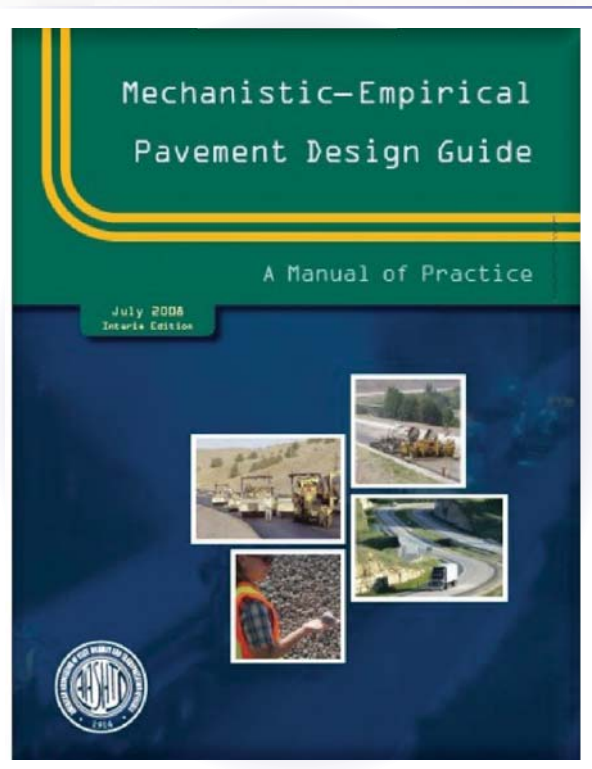
This project will enhance and supplement statewide materials' modulus data from aggregate and asphalt binder sources statewide for the NMDOT designers' immediate use and MEPDG implementation. Dynamic modulus (E^*) of HMA and resilient modulus (M_r) of base course databases will be developed for local materials. By creating a database of local materials this project will permit application of MEPDG to Level 2 analysis.

Justification

Currently, testing is limited to materials in the Bernalillo County area and the testing is conducted by the University of New Mexico Civil Engineering Department. But New Mexico State University has recently purchased the testing equipment. NMSU is able to test materials in the southern part of the state. Moreover, having two testing facilities can introduce independent assurance to the database.

Anticipated Benefits

Asphalt dynamic modulus and base/subgrade resilient modulus are the key input parameters for structural design of flexible pavement according to MEPDG. Full benefit of implementing MEPDG requires development of a highly reliable and locally specific database of values. The net effect will be more efficient use of materials and increased reliability of pavement designs.



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