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MOTIVATION
- Thin asphalt overlays offer an economical resurfacing, preservation, and renewal paving solution for roads that require safety and smoothness improvements.
- Recently, thin asphalt overlays have been used in Nebraska as a promising pavement preservation technique that needs evaluations.

OBJECTIVE
- To evaluate the thin asphalt overlay practice recently implemented in Nebraska:
  - SPH (2-inch conventional practice) vs. SLX (1-inch thin-lift) practice

RESEARCH METHOD
- Step 1: Collecting Mixes from Field Project
- Step 2: Performing Laboratory Tests
- Step 3: Conducting MEPDG and LCCA Analyses

LABORATORY TEST RESULTS

CONCLUSION
- Test results indicated that the two mixtures are similar in stiffness characteristics and cracking resistance.
- It was shown that the SLX mixture was more susceptible to moisture-induced damage than the SPH mixture.
- Based on the laboratory test results, MEPDG predictions, and LCCA results, the thin-lift overlay pavements that replace 1-inch thick old asphalt with a new SLX mix are expected to perform satisfactorily.
- The thin-lift overlay practice is expected to provide several benefits, including quickly opening highways to the public due to faster paving and a safer driving surface.