State of Utah Experience

*Performance-Related Tests and Specifications*

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Performance Tests: 3 Legged Stool

- Pavement Stripping
- Pavement Rutting
- Pavement Cracking
• Immersion Compression Test
• Lottman Test, AASHTO T 283
• Justified use of hydrated lime in all our HMA
• QMP to audit hot mix plants – lime and moisture
• Performance test?
UDOT Performance Test History – Asphalt Pavement - Rutting

- Georgia Loaded Wheel Test
- Asphalt Pavement Analyzer
- Hamburg Rut Test
Hamburg Equipment -
20 lbs extra load applied
• BBR Beams for cracking performance

• SCB to balance our mix designs
Dry brittle pavements

- No longer pay asphalt binder separately
- Superpave and the Hamburg Test along with the use of RAP have left us with dry brittle pavements.
• Dr. Pedro Romero, Utah work with BBR Beams
  o Please notice how this test has demonstrated to relate predicted performance to field performance
SCB Test, I-FIT, Illinois procedure
I-FIT Test

Load vs Load Line Displacement (LLD)

Load (kN)

Displacement (mm)
Questions?
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