Mix Design Optimization Survey
Surveyed 24 States

- Reduced Gyrations - 13
- Lowered Design Voids - 8
- Increased VMA - 7
- Increased Minimum AC - 4
- Changed NMAS (finer) - 4
- Pursuing Performance Tests - 6
  (Texas Overlay, SCB, Hamburg)
Asphalt Materials Cracking Tests (9)
NCHRP 9 - 57

1. Disk-shaped Compact Tension (DCT) Test: ASTM D 7313-13
2. Semi-Circular Bend at low temperatures (SCB Test)
3. IDT Creep Compliance and Tensile Strength Test
4. Uniaxial Thermal Stress and Strain Test (UTSST)
5. Texas Overlay Test  T-248L
6. Flexural Bending Fatigue Test  AASHTO T 321
7. Semi-Circular Bend (SCB) @ intermediate temperatures
8. Direct Tension Cyclic Fatigue Test (S-VECD)
9. Repeated Direct Tension (RDT) Test
Asphalt Materials Cracking Tests (9)  
NCHRP 9 - 57

SCB at Low Temperature:  
https://www.youtube.com/watch?v=mWKXZhEHot0

Overlay Test:  
https://www.youtube.com/watch?v=tLGVK_mHX_I