

**FACT SHEET
CMRC-FS-001
March 2016**

PURWHEEL LABORATORY WHEEL TRACKER

- Original PURWheel Developed at Purdue University in 1990's
- Donated to MSU in 2007

Two test protocols:

- PURWheel-dry (64 C air test)
- PURWheel-wet (64 C water test)



- Equipment was renovated, modified, and now operates with the new protocols (CMRC M 10-2, Version 1).
- System is computer controlled using Hawk software.
- Laboratory compacted or field specimens can be tested. Laboratory compacting is done with a Linear Asphalt Compactor.
- System has two independently controlled wheel carriages that load specimen with 4-ply pneumatic tires.
- Typical case is 7.6 cm thick slab tested 20,000 passes with 1,750 N load & 630 kPa contact pressure.
- Testing a specimen with dry loading paralleling the Asphalt Pavement Analyzer and wet loading directly related to dry loading provides a somewhat unique perspective on moisture damage potential.

