

ABSTRACT

The Falling Weight Deflectometer (FWD) has become the "standard" for deflection testing of pavements. Iowa has used a Road Rater since 1976 to obtain deflection information. A correlation between the Road Rater and the FWD was needed if Iowa was going to continue with the Road Rater.

Comparative deflection testing was done using a Road Rater Model 400 and a Dynatest 8000 FWD on 26 pavement sections. The SHRP contractor, Braun Intertec Pavement, Inc., provided the FWD testing. The r^2 for the linear correlations ranged from 0.90 to 0.99 for the different pavement types and sensor locations.