



LTBP Program's Literature Review on Weigh-in-Motion Systems

This study was conducted as part of the Federal Highway Administration's Long-Term Bridge Performance (LTBP) Program. The LTBP Program is a long-term research effort, authorized by the U.S. Congress under the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users legislation, to collect high-quality data from a representative sample of highway bridges nationwide that will help the bridge community better understand bridge performance. The products from this program will be a collection of data-driven tools, including predictive and forecasting models that will enhance the abilities of bridge owners to optimize their management of bridges.

This report presents a review of the literature related to regulations on truck weight limits, weigh-in-motion (WIM) technologies for pavements and bridges, WIM system specifications and accuracy, and experience from the Long-Term Pavement Performance Program with WIM systems relevant to the traffic load data collection goals for the LTBP Program. This report should be of interest to bridge program personnel from Federal, State, and local transportation departments as well as to parties engaged in bridge-related research.

https://www.fhwa.dot.gov/publications/research/infrastructure/structures/ltbp/160 24/index.cfm

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