

PAPER 110

Statistical Analysis of LTPP SPS-3 Experiment on Preventive Maintenance of Flexible Pavements

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ABSTRACT

This paper describes the evaluation of preventive treatments in mitigating the rate of distress propagation in flexible pavements. The analysis was based on data from preventive maintenance treatments data collected in the Long Term Pavement Performance (LTPP) program. Data were obtained from 81 sites across the United States and Canada which were part of the specific pavement experiments (SPS-3). SPS-3 was designed to monitor the performance of four treatments: thin overlay, chip seal, crack seal and slurry seal under different design conditions. Design conditions considered were precipitation, temperature, traffic, subgrade materials and pavement condition prior to applying preventive treatment. Fatigue cracking, rutting and longitudinal roughness data collected during the LTPP program were used to compare the overall performance of different treatments. A weighted average index was defined to represent the overall performance of the sections over the years. Statistical techniques were used to compare the effectiveness of each treatment in relation to others and the control section, which did not receive any treatment. Conclusions from the analyses indicated that thin overlay and chip seal are effective treatment options for most design conditions with respect to fatigue cracking. Thin overlay outperforms other treatments in most design conditions with respect to rutting and in some cases with respect to roughness. The difference between the performance of crack seal, slurry seal and control section was not found to be statistically significant with respect to any distress type and design factor.

Maintaining Flexible Pavements The Long Term Pavement Performance Experiment Sps 3 5 Year Data Analysis

**Prithvi S. Kandhal, Mary Stroup-
Gardiner**



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Flexible Pavement Rehabilitation and Maintenance Prithvi S. Kandhal, Mary Stroup-Gardiner, 1998 Papers from a December 1997 symposium detail innovative and effective strategies for rehabilitation and maintenance of existing highways Primary topics addressed include pavement evaluation for rehabilitation and management cold in place recycling techniques for pavement rehabilitation effective Maintaining Flexible Pavements D. A. Morian, S. D. Gibson, J. A. Epps, Nichols Consulting Engineers (Firme), États-Unis. Federal Highway Administration. Office of Research and Development, 1999-01-01 Includes introduction and background expert task group field reviews LTPP data base analysis life cycle cost analysis summary conclusions and recommendations Appendices on materials and construction specifications for different parts of the country material properties and test data development and application of a pavement rating score and data on such problems as distress rutting friction and traffic Final appendix is a stand alone report on analysis of asphalt binder properties

Maintaining Flexible Pavements Dennis A. Morian, 1998 Introduction to Unmanned Aircraft Systems, Second Edition Douglas M. Marshall, Richard K. Barnhart, Eric Shappee, Michael Thomas Most, 2015-10-26 The proliferation of technological capability miniaturization and demand for aerial intelligence is pushing unmanned aerial systems UAS into the realm of a multi billion dollar industry This book surveys the UAS landscape from history to future applications It discusses commercial applications integration into the national airspace system NAS System function operational procedures safety concerns and a host of other relevant topics The book is dynamic and well illustrated with separate sections for terminology and web based resources for further information Preservation Approaches for High-traffic-volume Roadways David G. Peshkin, 2011 TRB s second Strategic Highway Research Program SHRP 2 Report S2 R26 RR 1 Preservation Approaches for High Traffic Volume Roadways documents the state of the practice of preservation treatment on asphalt and concrete pavements on high and low volume roadways The report also includes general guidelines on the application of preservation treatments on high volume roadways The same project that produced SHRP 2 Report S2 R26 RR 1 also produced SHRP 2 Report S2 R26 RR 2 Guidelines for the Preservation of High Traffic Volume Roadways which explores the state of the practice for preservation treatments on high and low volume asphalt and concrete roadways The report also includes suggested guidelines on the application of preservation treatments on high volume roadways *Principles and Practices of Transportation Planning and Engineering* Connie Tang, Lei Zhang, 2021-04-11 Connie Kelly Tang and Lei Zhang have provided a holistic coverage of the entire surface transportation project and program development process from the beginning of planning through environmental approval design right of way acquisition construction to operations and maintenance Neil Pedersen Executive Director Transportation Research Board National Academies of Sciences Engineering and Medicine Washington DC Transportation program and project development is complex The process spans over planning programming environment design right of way construction operations and maintenance Professionals from civil engineering

planning social and environmental sciences business and project management and data science work together in a relay team to transform an idea into a highway a transit hub an airport or a water facility It is challenging for any one person to master all the knowledge and skills needed to perform every relevant task However it is critical for all involved to understand how this relay works and how the societal environmental governmental and regulatory contexts influence the process and the technical solution Professionals who understand the process and see the big picture are those who rise to the top as leaders Transportation Project and Program Development provides holistic coverage on the technical subject matter processes and procedures and policy and guidance associated with transportation project and program development which can help professionals become program leaders For each phase of the process key products delivered processes used governing principles foundations of applicable science and engineering technologies deployed and knowledge required are discussed While all coverages reflect the practices of the United States the logic principles science and engineering are applicable to all countries of the world The book can also serve as an introductory textbook for undergraduate students and as a textbook or reference for a graduate level course in civil engineering transportation engineering planning and project management

LTTP 1998 Year in Review ,1999 *Public Roads* ,1999 **Proceedings of GeoShanghai 2018 International Conference: Transportation Geotechnics and Pavement Engineering** Xianming Shi,Zhen Liu,Jenny Liu,2018-05-03 This book is the fourth volume of the proceedings of the 4th GeoShanghai International Conference that was held on May 27 30 2018 This volume entitled Transportation Geotechnics and Pavement Engineering represents the recent advances and technologies in transportation geotechnics and pavement engineering This book covers a wide range of topics from transportation geotechnics to geomechanics at various length scales to pavement materials and structures The book offers a unique mix of numerical modeling studies experimental studies and case studies from industry It may be of interest to researchers and practitioners in the fields of transportation engineering and pavement engineering Each of the papers included in this book received at least two positive peer reviews The editors would like to express their sincerest appreciation to all of the anonymous reviewers all over the world for their diligent work **Guidelines for the Preservation of High-traffic-volume Roadways** David G. Peshkin,2011 TRB s second Strategic Highway Research Program SHRP 2 Report S2 R26 RR 2 Guidelines for the Preservation of High Traffic Volume Roadways explores the state of the practice for preservation treatments on high and low volume asphalt and concrete roadways The report also includes suggested guidelines on the application of preservation treatments on high volume roadways

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