

Title: Impacts of Studded Tires on Pavement and Associated Socioeconomics

SPR No: RSCH013-xxx

Project Description: The focus of this project is to generate a paper addressing various aspects of studded tires including studded tire performance, associated pavement damage from studded tire use, related traffic safety components and current regulations. The benefits and drawbacks of their use will be summarized as well as the potential impacts of imposing a summertime ban on them. This will be conducted in four parts: an in-depth literature search, a survey of similar states, a survey of the local tire industry, and field surveys. A final report will be generated detailing the findings of each of the four main areas of the study. In addition, the report will detail possible recommendations for regulatory changes based mainly upon potential infrastructure damage and associated safety impacts. Further recommendations may include possible additional field trials, and/or future research that may be beneficial to implement in order to obtain more conclusive results.

Since October 2009, a survey of the local tire industry has been initiated and five field parking lot surveys have been completed. The parking lot surveys will be done again in December, presumably after the public has put on their studded or winter tires.

Start date: October 2009

End date: January 2010

Status: Active Inactive Completed

Total Dollars: \$10,000

Index Terms: Administration Bridges Construction Environment
 Geotechnical Maintenance Materials Pavements Safety Traffic Transit

Sponsor Organization

Name: Vermont Agency of Transportation

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Subjects: Studded tires, pavements.

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