

| <b>UTC Project Information – Project #4-10</b>                          |  |
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| Project Title   | Road Salt Impact Assessment (Safety Study)   |
| University  | University of Maine  |
| Principal Investigator  | Jonathan Rubin   |
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| Co-PI(s)  | Mohammadali Shirazi  |
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| Funding Source(s) and Amounts Provided (by each agency or organization) | Federal: \$66,435.14;<br>DOT: \$103,637.00   |
| Total Project Cost  | \$170,072.14   |
| Agency ID or Contract Number  | 69A3551847101  |
| Start and End Dates   | Aug 15, 2020 to May 31, 2022   |
| Brief Description of Research Project                                   | The proposed study supports a project sponsored by Maine DOT titled as “Road Salt Impact Assessment.” Winter weather and maintenance treatments have significant impact on highway safety and operations. Understanding the safety impact of these factors directly influence decisions on diminishing maintenance funds, and cost-benefit analysis of alternative maintenance strategies. This research will conduct exploratory analysis of fatal (K), injury (ABC), and property damage only (PDO) crashes in Maine. Models will be developed to explore to what extent seasonal (i.e., winter vs. non-winter) and monthly weather factors impact frequency of lane departure crashes in Maine. The proposed research will also analyze the impact of different roadway, driver, and weather factors on the severity of single-vehicle lane departure crashes on rural roadways in Maine. |
| Describe Implementation of Research Outcomes (or why not implemented)   | This project is in its initial research phase. Implementation of Research outcomes will be reported upon completion of initial research.   |
| Place Any Photos Here   |  |
| Impacts/Benefits of Implementation (actual, not anticipated)            | This project is in its initial research phase. Impacts and benefits of the research will be reported after the implementation phase.   |
| Web Links   | <ul style="list-style-type: none"> <li>• Reports</li> <li>• Project website</li> </ul>   |