

| <b>UTC Project Information</b>  |   |
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| Project Title   | MPC-451 – Assessing the Cost-Effectiveness of Wyoming’s CMAQ Unpaved Road Dust Suppression Program, Year 2  |
| University  | University of Wyoming   |
| Principal Investigator  | Khaled Ksaibati   |
| PI Contact Information  | Dept. of Civil & Architectural Engineering<br>University of Wyoming<br>Laramie, WY 82071<br>Phone: (307) 766-6230<br>Email: khaled@uwyo.edu   |
| Funding Agencies  | USDOT, Research and Innovative Technology Administration  |
| Agency ID or Contract Number  | DTRT13-G-UTC38  |
| Project Cost  | \$83,815  |
| Start and End Dates   | September 30, 2013 to September 30, 2018  |
| Project Duration  | September 30, 2013 to September 30, 2018  |
| Brief Description of Research Project                                 | This study will monitor dust suppressant application, surfacing aggregate type, traffic, weather, roadway performance, and fugitive dust emissions to provide a comprehensive assessment of the effectiveness of the dust suppression efforts paid for with CMAQ funds. Due to the performance difference between unpaved roads in drier and wetter climates, the results from this study will be most applicable to the interior western United States and to other drier climates throughout the world. The methodologies developed during this study will be applicable for assessing the effectiveness of any dust control efforts, regardless of differences in precipitation. |
| Describe Implementation of Research Outcomes (or why not implemented) | The research has been implemented. Recommendations from the study have been implemented successfully on CMAQ roads.   |
| Place Any Photos Here   |   |
| Impacts/Benefits of Implementation (actual, not anticipated)          | The research will lead to the reduction of fugitive dust emissions from unpaved roads. Maintenance costs are expected to decrease on roads treated with dust suppressants since maintenance is not needed as often and gravel is not lost as quickly. Treatment of gravel roads with suppressants will also lead to higher quality road surface with less raveling and better vehicle control.  |
| Web Links   | <a href="https://www.ugpti.org/resources/reports/details.php?id=963">https://www.ugpti.org/resources/reports/details.php?id=963</a><br><ul style="list-style-type: none"> <li>• Reports</li> <li>• Project Website</li> </ul> <a href="https://www.ugpti.org/resources/reports/details.php?id=964">https://www.ugpti.org/resources/reports/details.php?id=964</a>   |