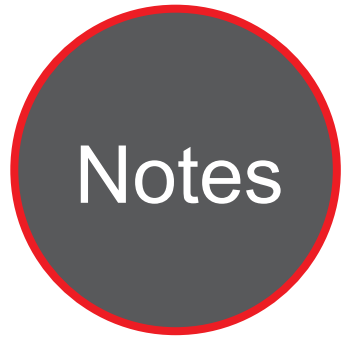


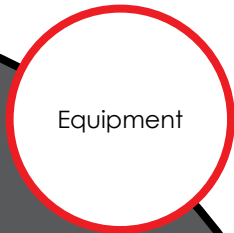


Caltrans Division of Research,
Innovation and System Information

Research



Notes



Equipment

MARCH 2020

Project Title:
Snow and Ice Removal Strategies

Task Number: 3656

Start Date: TBD

Completion Date: TBD

Task Manager:
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Transportation Engineer (Electrical)
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Evaluation of New Brine Application Methods and Equipment

Investigate new brine application methods and equipment that can help improve snow removal operations.

WHAT IS THE NEED?

California Department of Transportation (Caltrans) continuously seeks the most efficient and effective snow and ice removal strategies, which includes evaluating new equipment or materials that have the potential to improve Caltrans' snow removal operations. Effective snow and ice removal operations are essential for keeping Caltrans roadways open and safe for the traveling public. Also, snow removal operations can be resource intensive for Caltrans so it is necessary to improve efficiencies and reduce costs.

WHAT ARE WE DOING?

Caltrans will work with the Advance Highway Maintenance and Construction Technology Research Center (AHMCT) at University of California, Davis to conduct this research. This research task will conduct a review of available equipment and methodologies that are used for applying liquid brine to snow and ice-covered roadways. This review will guide the project panel to choose specific brine application methods and equipment for investigation in this research effort.

WHAT IS OUR GOAL?

The goal of this research is to implement improved brine application methods and equipment into Caltrans' operations.



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WHAT IS THE BENEFIT?

Caltrans benefits from this research by implementing the most up-to-date brine equipment and application methods that will help improve snow removal operations.

WHAT IS THE PROGRESS TO DATE?

The research details are being formalized at this time.

IMAGE



Figure 1. Multi-lane brine spraying