

ICNet Members' New England Research & Project Survey



Research/Project Focus	Frost Heave Mitigation using Polyurethane Foam
Research/Project Description	NHDOT Materials and Research initiated a project to inject polyurethane foam into the base material of a roadway to mitigate frost heaves. The area is poorly drained with high groundwater.
Primary Category*	Pavement
Geographic Location	Route 129, Loudon, NH
Funding	NHDOT State Planning and Research allotment from Federal Highway Funds
Contact	Ann Scholz, NHDOT: ascholz@dot.state.nh.us
Infrastructure sectors effected, subject area	Pavement Design and Geotech Design sections in the Bureau of Materials and Research.
For modeled climate or sea level rise projections, AOGCM or other sources used	N/A
Other Information, data, models, used	NHDOT State Planning and Research allotment from Federal Highway Funds

Time periods analyzed	During Spring thaw
Status /Date submitted to ICNet	It was initiated in September 2011 and been evaluated using survey and a FWD. Submitted 9,2013
Brief key findings to date	Results of the test section compared to control section have been minimal.
Key publications/reports?	N/A
Other information (e.g., web links to technical reports).	N/A

*** Categories: Roads, bridges, and culverts; Pavement and/or soils; Hydrology (study of data/floods); Environmental/water resources (stormwater, drinking water); Transportation assets (network); Climate model output**