

<b>Effective:</b> October 1, 2002 (Issued 5/02)	35.00 Winter Operations - De-icing Agents and Abrasives
<b>Supersedes:</b> Initial Issue	35.25 Application Rates - Anti-icing

By: Director, Bureau of Highway Operations

Page 1 of 1

Anti-icing Guideline				
PREDICTED PRECIPITATION EVENT	Recommended Locations	Application		COMMENTS
		Liquid (gal/lane-mi.)	Pre-wetted Salt (lb/lane-mi)	
<b>Frost or Black Ice</b>	Bridge Decks and Trouble Spots	20-30 (frost) 30-40 (Black Ice)	50-150	1) Consider treating approaches as well as bridge decks. 2) Treat ice patches, if needed, with pre-wetted salt at 100 lb/lane-mi.
<b>Sleet</b>	Bridge Decks and Trouble Spots and Intersections	20 Recommended 30 Maximum	200-400(4) 100-300(5)	1) Consider treating approaches as well as bridge decks. 2) Treat ice patches, if needed, with pre-wetted salt at 100 lb/lane-mi.
<b>Freezing Rain</b>	Any area of concern	Not Recommended	200-400(4) 100-300(5)	It is not recommended to apply liquid de-icing agents in an anti-icing mode prior to freezing rain events.
<b>Light Snow (&lt; 1/2" in./hr.)</b>	Trouble Spots and Intersections	30 Recommended 40 Maximum	100-200	If anti-icing is performed prior to a snow event, re-application may be necessary to prevent re-freeze. It also may be necessary to switch to a de-icing mode.
<b>Moderate or Heavy Snow (≥ 1/2 in./hr)</b>	Trouble Spots and Intersections	40 Recommended 50 Maximum	100-300	1) Do not apply liquid anti-icing agents onto heavy snow accumulation or packed snow. 2) Applications will need to be more frequent at lower temperatures and higher snowfall rates. 3) If anti-icing is performed prior to a snow event, re-application may be necessary to prevent re-freeze. It also may be necessary to switch to a de-icing mode.
<p><b>Notes:</b></p> <p>(1) Anti-icing operations typically should be conducted during normal, non-overtime working hours.</p> <p>(2) It is not recommended to apply de-icing agents in an anti-icing mode when the pavement temperature is below 20°F or drifting is a problem.</p> <p>(3) Time initial anti-icing agent applications and subsequent de-icing agent applications to prevent deteriorating conditions or development of packed and bonded snow.</p> <p>(4) 4-Lanes and Greater (5) 2 Lanes</p>				