

1.	Transport Canada Publication No. TP 15232E	2. Project No.		3. Recipien	t's Catalogue No.	
4.	Title and Subtitle		5. Publication Date			
	Wind Tunnel Trials to Examine Anti-le Characteristics and to Support the Do	ellet				
	Allowance Times, Winter 2009-10 to		6. Performi	6. Performing Organization Document No.		
			CM2265.002			
7.	Author(s)		8. Transpor	t Canada File No.		
	Marco Ruggi					
9.	Performing Organization Name and Address		10. PWGSC File No.			
	APS Aviation Inc.					
	6700 Cole-de-Liesse, Suite 105 Montreal Quebec		11. PWGSC or Transport Canada Contract No.			
	H4T 2B5					
	Canada					
12.	Sponsoring Agency Name and Address		13. Type of Publication and Period Covered			
	Transportation Development Centre		Draft			
	1 ransport Canada		14 Project (	Officer		
	Ottawa Ontario K1A 0N5		14. Project C			
	Canada			Yvan	Chabot	
15.	Supplementary Notes (Funding programs, titles of related publications, etc.)					
	Several research reports for testing of de/anti-icing technologies were produced for previous winters on behalf of Transport Canada. These are available from the Transportation Development Centre (TDC). Several reports were produced as part of this winter's research program. Their subject matter is outlined in the preface. The work described in this report was, in part, co-sponsored by the Federal Aviation Administration (FAA).					
16.	Abstract					
	This report documents the series of full-scale tests conducted in the NRC 3 m x 6 m Open-Circuit Propulsion and Icing Wind Tunnel using a thin high-performance wing model to determine the flow-off characteristics of anti-icing fluid with and without mixed precipitation conditions with ice pellets. Since 2009-10, a significant amount of work and analysis has been performed to support the development of the ice pellet allowance times. As the work has been ongoing, the reports were only compiled as "Interim" and therefore never officially published. The purpose of having this summary report with each of the previous interim reports included as volumes is to have an official documentation of the work completed; the individual projects are documented in detail in four separate reports included as Volumes to this report. This also requires a lesser level of effort as compared to a consolidated report; all interim reports have been included as volumes in "as-is" format. In the future, a report consolidating all the ice pellet work from 2005-06 onwards would be beneficial to provide a full-spectrum analysis of the data used to develop the ice pellet guidance material.					
	Volume 1: Summary Report					
	Volume 2: 2009-10 Testing Report					
	Volume 4: 2011-12 Testing Report					
	Volume 5: 2012-13 Testing Report					
17.	Key Words 18. Distribution Statement					
	Sensor, NowCasting, ROGIDS, HOT Guidelines, LOUT, R&D, Apps, Light Snow, Very Light Snow, Contamination, Windshield Washer, Wind Tunnel	Limited number of copies available from the Transportation Development Centre				
19.	Security Classification (of this publication) 20. Security Classification (of the publication)		this page)	21. Declassification	22. No. of	23. Price
	Unclassified	Unclassified		(date)	xiv, 1046	
v Canadã						