# Title
Regression Coefficients and Equations used to Develop the Winter 2015-16 Aircraft Ground Deicing Holdover Time Tables

## Abstract
Since the winter of 2009-10, Transport Canada has published the regression information underlying in the data in the holdover time (HOT) guidelines. Starting in the winter of 2013-14, the FAA also began publishing regression information. The information is published in several documents:

- Transport Canada and FAA both publish online documents which provide users with the regression information for the current winter’s HOT Guidelines in a timely manner in a user friendly format; and
- Transport Canada publishes this TP report, which documents the source of the regression information and how it was obtained.

For the 2015-16 HOT guidelines, regression data was generated for the two generic Type I HOT tables, ten Type II fluid-specific tables, four Type III fluid-specific tables, and fourteen Type IV fluid-specific tables. In addition, regression data was required for the grandfathered fluid data set in support of the generic Type II HOT table. The data was predominantly obtained from holdover time testing conducted over the winters of 1996-97 to 2014-15. Much of the data had been documented in a previous Transport Canada report and was extracted from that report. Additional data was collected from the results of holdover time testing conducted in the winter of 2014-15.

It is recommended that both data publications be updated in one year to reflect any changes made to the holdover time guidelines for the winter of 2016-17.

## Key Words
- Anti-icing, deicing, deicing fluid, holdover times, precipitation,
- Type I, Type II, Type III, Type IV, aircraft, ground, test, winter,
- regression, holdover time determination system, liquid water equivalent