The Accident Database of the CSRTG
Background

• Initiated by Transport Canada, FAA and the UK CAA following the need for a Benefit Analysis for Cabin Water Mist systems and Smoke Hoods
Purpose

The primary purpose of the database is to provide a tool to assist in carrying out:

• Cost Benefit and Risk Analyses

• Studies aimed at identifying safety issues
Purpose

• Some recent studies and analyses carried out using the CSRTG Accident Database
  – Aircraft Accident Fire Survivability Data
  – Trends in Accidents and Fatalities in Large Transport Airplanes
  – A Water Mist Cost Benefit Model
  – A Benefit Analysis For Enhanced Protection from Fires in Hidden Areas on Transport Aircraft
Purpose

• Some recent studies and analyses carried out using the CSRTG Accident Database
  
  – A Benefit Analysis for the Installation of Automatically Disposable Hatches
  
  – Cost Benefit & Risk Analysis For Fire Suppression on Freighter Airplanes
Database Content

- Passenger and Cargo operations on aircraft type certificated with 20 seats or more
- Current Version of the Database contains:
  - 3,926 Accidents - period 1967 to 2009
  - 3,148 with textual fields
  - 567 with synopsis of accident reports
Database Content

- Photographs
Database Content

• Exit Usage

KEY:
- Exit Left Door 1
- Exit Right Door 1
- Unoccupied Seat
- Exit Left Overwing 2 or 3
- Exit Right Overwing 2 or 3
- Exit Unknown

45 Total Number of Evacuees Through this Exit

Note: Some evacuees re-entered then exited a second time via a different exit. The first exit used is illustrated.
Database Content

- Injury Location

Note: This data includes information determined by the Safety Board, that some passengers switched seats from those assigned, and that the nonrevenue passenger most likely occupied seat 12B.

KEY:

- FI: FATAL IMPACT
- FB: FATAL BURN
- SI: SERIOUS IMPACT
- FAI: FATAL ASPHYX/TOXICITY IMPACT INJ
- FAB: FATAL ASPHYX/TOXICITY BURN
- FBD: FATAL BURN IMPACT INJ
- U: UNOCCUPIED
- FABI: FATAL ASPHYX/TOXICITY BURN IMPACT
- FH: FATAL HEMORRHAGE

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Database Content

• Data:
  – Fields populated primarily by data published by the Authorities
  – For accidents where it is not possible to obtain official reports collaboration with the Aviation Safety Network to incorporate their data
Key Features of the Database

• Word Search on Text
• Field Searches
• Web Based

http://www.rgwcherry-adb.co.uk