

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



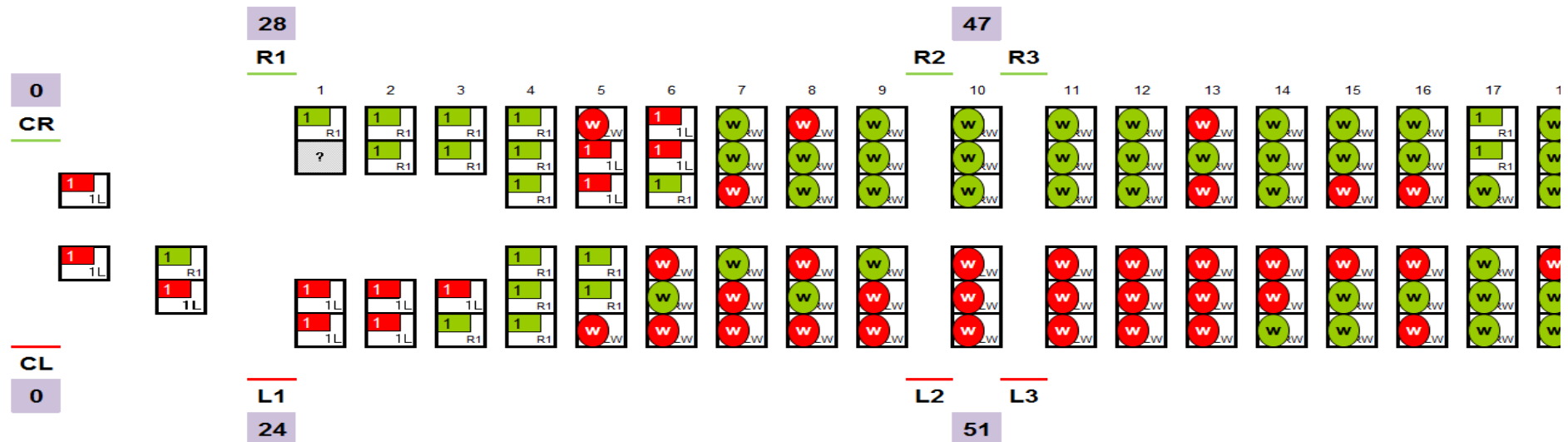
Database Content

- Photographs



Database Content

- Exit Usage



KEY:



Exited Left Door 1



Exited Right Door 1



Unoccupied Seat



Exited Left Overwing 2 or 3



Exited Right Overwing 2 or 3



Exit Unknown

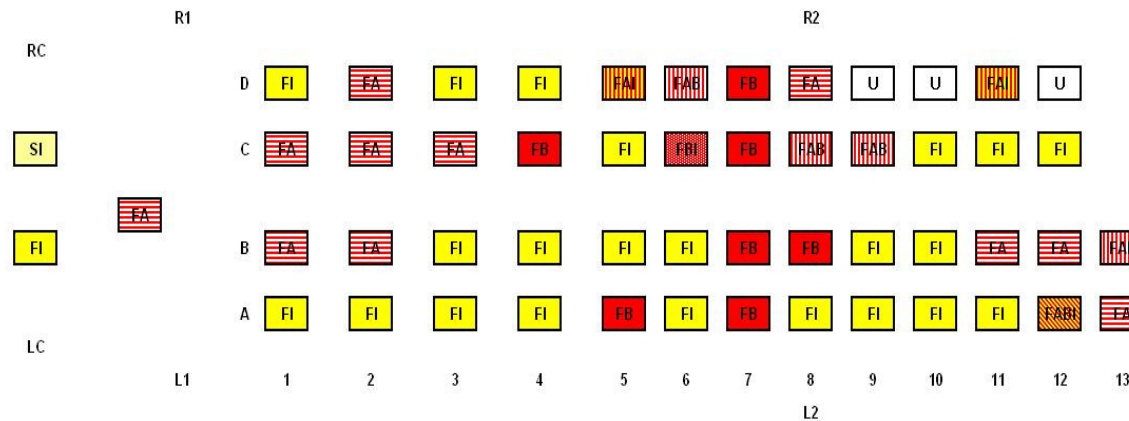
45

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

FAI

FATAL ASPHYX/TOXICITY IMPACT INJ

FBI

FATAL BURN IMPACT INJ

FABI

FATAL ASPHYX/TOXICITY BURN IMPACT

FB

FATAL BURN

FAB

FATAL ASPHYX/TOXICITY BURN

U

UNOCCUPIED

FA

FATAL ASPHYXIATION/TOXICITY

SI

SERIOUS IMPACT

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>