

Project 1-1: Update of Current Flood and Storm Quantiles

Don Burn Theme 1 Co-Lead







Presentation Outline

- Overview of Project 1-1
- Linkages to other projects
- Research approach
- Progress to date





Project Overview

- Project seeks to find improved approaches for estimating extreme quantiles for Canadian conditions
 - Interested in both flood quantiles and extreme rainfall events
 - Latter used in the estimation of IDF curves
- Results can lead to the formation of guidelines for infrastructure design



Linkage to Other Projects

- Other related projects include:
 - Project 1-6 (Project 1-1 provides direct input)
 - Project 1-4 (rainfall analysis complements work on new procedures for updating IDF curves)
- Results will be of use to several projects in Theme 4



Research Approach

- General approach
 - Adopting a pooled (regional) frequency analysis approach
 - Approach will be tailored to the unique conditions at specific locations of interest



Progress to Date

• Flood quantiles

"Investigating techniques for flood quantile estimation in Canada"

- Presentation by Shabnam Mostofi Zadeh
- Rainfall quantiles

"Improved Homogeneous Group Formation for Regional IDF Estimation "

- Poster by Zhe (Emma) Yang
- Additional student to start in Fall of 2017

