



Thematic Discussion 2: Enhancing the CEC flood-costing method

2nd CEC Virtual Expert Workshop



22-23 October 2020



Welcome and Logistics

- Welcome all!
- Please introduce yourself in the “Chat” window
- Please remember to select your language under the “Interpretation” button
 - Bottom of screen
 - Can also mute background audio
- Meeting is being recorded
- Please speak slowly for the interpreters
- Please mute your audio when you are listening
- During discussion, feel free to use “chat” feature, “raise hand”, or unmute yourself to continue the conversation



Recap from Thematic Discussion 1

- Thematic Discussion 1: CEC flood project preliminary findings
 - Presentations
 - Renee McPherson (University of Oklahoma)
 - Orland Cabrera Rivera (CEC Secretariat)
 - Zafar Adeel (Simon Fraser University)
 - Hirmand Saffari (Simon Fraser University)
 - Ana María Alarcón Ferreira (Universidad Nacional Autónoma de México)
 - Lynn M. Rae (University of Arizona)
 - Xin Wen (Simon Fraser University)
 - Questions
 - 1) How do we address these data gaps and knowledge gaps?
 - 2) What are the common lessons for the CEC flood costing project?



Theme Recap

- Differences in data availability across countries (2013-2017)
 - Canada (8 events)
 - » Method: 1) Rough estimates of costs, 2) Collect insured losses, 3) Data disaggregation
 - » Evolving approach needs flexibility, public and private collection
 - » Challenges
 - » Lack of data and data granularity, including uninsured losses
 - » Scarcity of data from remote areas and Indigenous communities
 - » Ongoing activities across multiple levels of government to improve data situation
 - Mexico (7 events)
 - » Most complete data availability and index coverage
 - » Already use adaptation of UN ECLAC CEPAL methodology since 1999
 - » Data collected in multiple areas including public infrastructure damages, damages and losses in agriculture, industry/sectors, and the environment and health
 - » >25 agencies collecting data across Mexico
 - » Challenges
 - » Incorporation of private insurance
 - » Increasing transparency and data sharing mechanisms
 - » Need for centralized data platform
 - » Local and regional personnel trainings for increased data provision



Theme Recap

- Differences in data availability across countries (2013-2017)
 - United States (2 events collected, 7 flood-only events identified)
 - » Many federal datasets covering different data areas
 - » Data Challenges
 - » Differences in spatial and temporal scales
 - » Multi-hazard events (e.g., hurricane)
 - » Insured vs uninsured losses, losses based on participation in public program
 - » Differing definitions of loss/damage categories across datasets and CEC method
 - » Market value of loss vs replacement cost
 - » Data access or availability issues
 - » Some state, local, and Indigenous data not currently included
 - Database
 - Extreme Events Economic Impact Database (E³ID)
 - 105 data indicators but data gaps remain
- How can we best overcome these data challenges?



Theme Recap

- Data privacy concerns
 - Tension between increasing granularity and preserving anonymity
 - Security concerns about critical infrastructure
- Missing data
 - Indigenous, highly vulnerable populations, private data, etc.
 - Multi-hazard data not incorporated
 - Further downstream costs (e.g., supply chain)
- Including multiple scales of data collection
 - Federal but also provincial/state, municipal/county, local data representation
- Ability to “reverse engineer” damage estimates?
 - Insured to uninsured
 - Federal to local
- Can be an expense to collect data
 - Resources limited directly following a disaster
 - Additional resources may be needed, cooperation important, data interpretation needed
- WMO extreme weather event catalogue
 - National and then global scale



Theme Recap

- Representation of Indigenous and Tribal impacts
 - Desire to include important losses that can sometime be omitted in official records
 - Need for inclusive, non-extractive, collaborative relationships
 - Requires time, trust, and learning
 - Need a protocol to exchange knowledge and collect data, especially on intangible assets
 - Some Indigenous groups collect data that can be higher quality than is collected nationally
 - Example: Guerrero flood (September 2013, Mexico)

- How best can we include flood damages from the Indigenous communities?
 - Best to empower and allow Indigenous groups in data gathering process
 - Currently have a category but no data
 - Connect with case study selection?



Thematic Discussion 2: Enhancing the CEC flood-costing method - Part 1

Session Chair: Laura Bakkensen (University of Arizona)

Rapporteur: Lynn Rae and Hirmand Saffari

Time	Topic	Speaker
12:20 - 12:30 (PT) 14:20 - 14:30 (CT) 15:20 - 15:30 (ET)	Welcome remarks and introductions	<i>Laura Bakkensen</i> (University of Arizona) <i>Expert representatives</i>
12:30 - 12:40 (PT) 14:30 - 14:40 (CT) 15:30 - 15:40 (ET)	Re-cap of discussions from Thematic Discussion 1	<i>Laura Bakkensen</i> (University of Arizona)
12:40 - 12:55 (PT) 14:40 - 14:55 (CT) 15:40 - 15:55 (ET)	Federal government representative presentation	<i>Nicky Hastings</i> (Natural Resources Canada)
12:55 - 13:10 (PT) 14:55 - 15:10 (CT) 15:55 - 16:10 (ET)	Local government representative presentation	<i>Kevin Stewart</i> (Urban Drainage and Flood Control District, Denver, CO, USA)
13:10 - 13:15 (PT) 15:10 - 15:15 (CT) 16:10 - 16:15 (ET)	Break	
13:15 - 13:30 (PT) 15:15 - 15:30 (CT) 16:15 - 16:30 (ET)	Insurance representative presentation	<i>Laura Twidle</i> (Catastrophe Indices & Quantification Inc., Canada)
13:30 - 13:45 (PT) 15:30 - 15:45 (CT) 16:30 - 16:45 (ET)	Indigenous Concepts of Value and Ethical Community Engagement	<i>Maurice Cruz</i> (South Central Climate Adaptation Science Center, U.S.)
13:45 - 14:30 (PT) 15:45 - 16:30 (CT) 16:45 - 17:30 (ET)	Open discussion 1) How best can we prioritize the various elements of the CEC method? 2) How can we address knowledge and data gaps? 3) What are the potential challenges in real-world implementation?	



Some Hopes for This Afternoon

- Listen to additional perspectives in presentations
- Continue stimulating discussion
 - From morning
 - From first two workshops
- Hear stakeholder perspectives
- Actionable recommendations to improve the CEC methodology and data collection efforts
 - Methodological improvements
 - Incorporation of Indigenous perspectives in an inclusive, collaborative manner
 - Future data collection priorities
 - Current data gaps
 - Case studies
- Key questions
 - 1) How best can we prioritize the various elements of the CEC method?
 - 2) How can we address knowledge and data gaps?
 - 3) What are the potential challenges in real-world implementation?