

Calgary Flood and Alberta Fires Response and Recovery



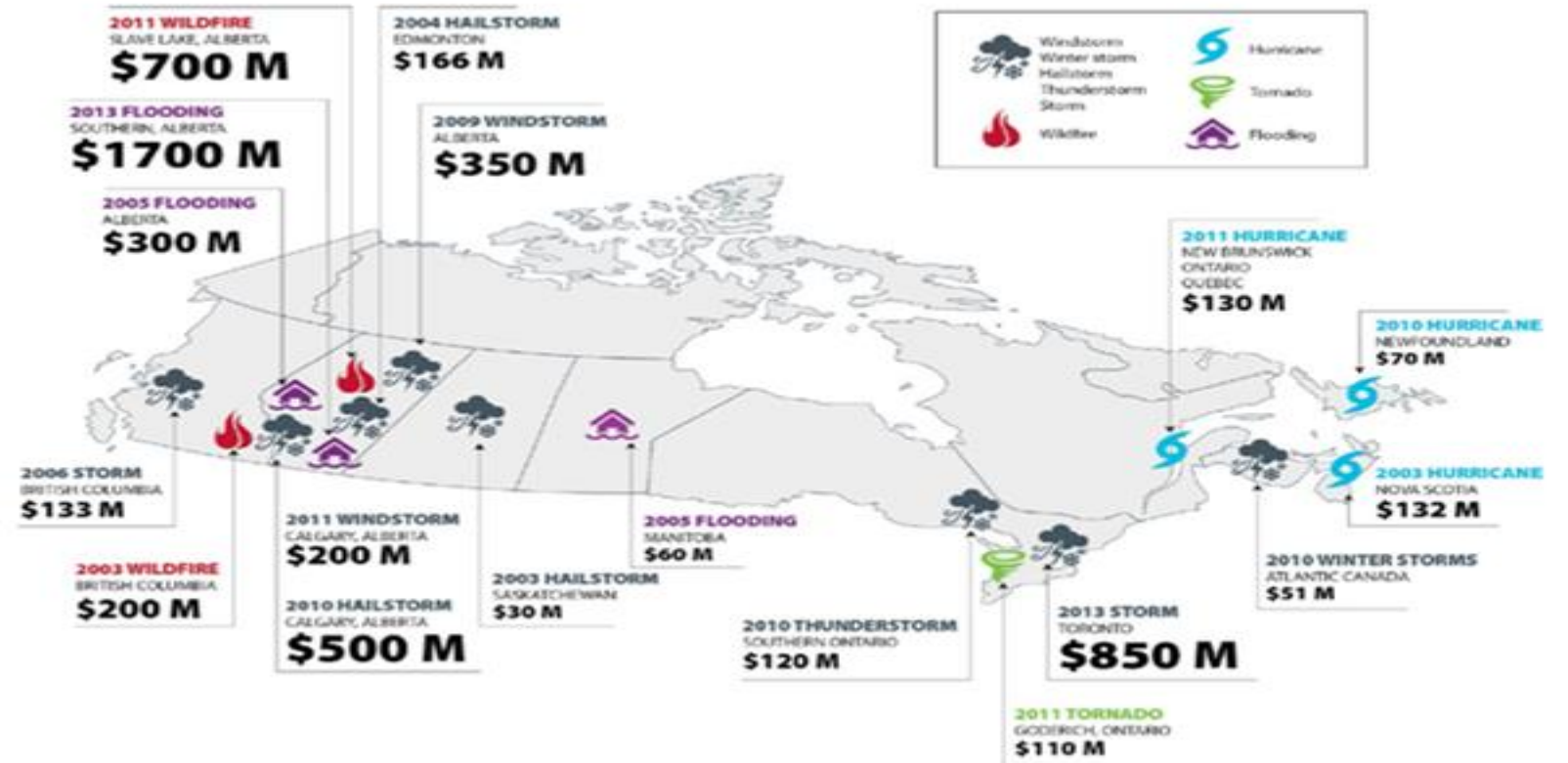
Jody Wolfe
Manager
Corporate Strategy
United Way

Richard Davidson
Director EH&S
Fort Hills Operations
Suncor Energy

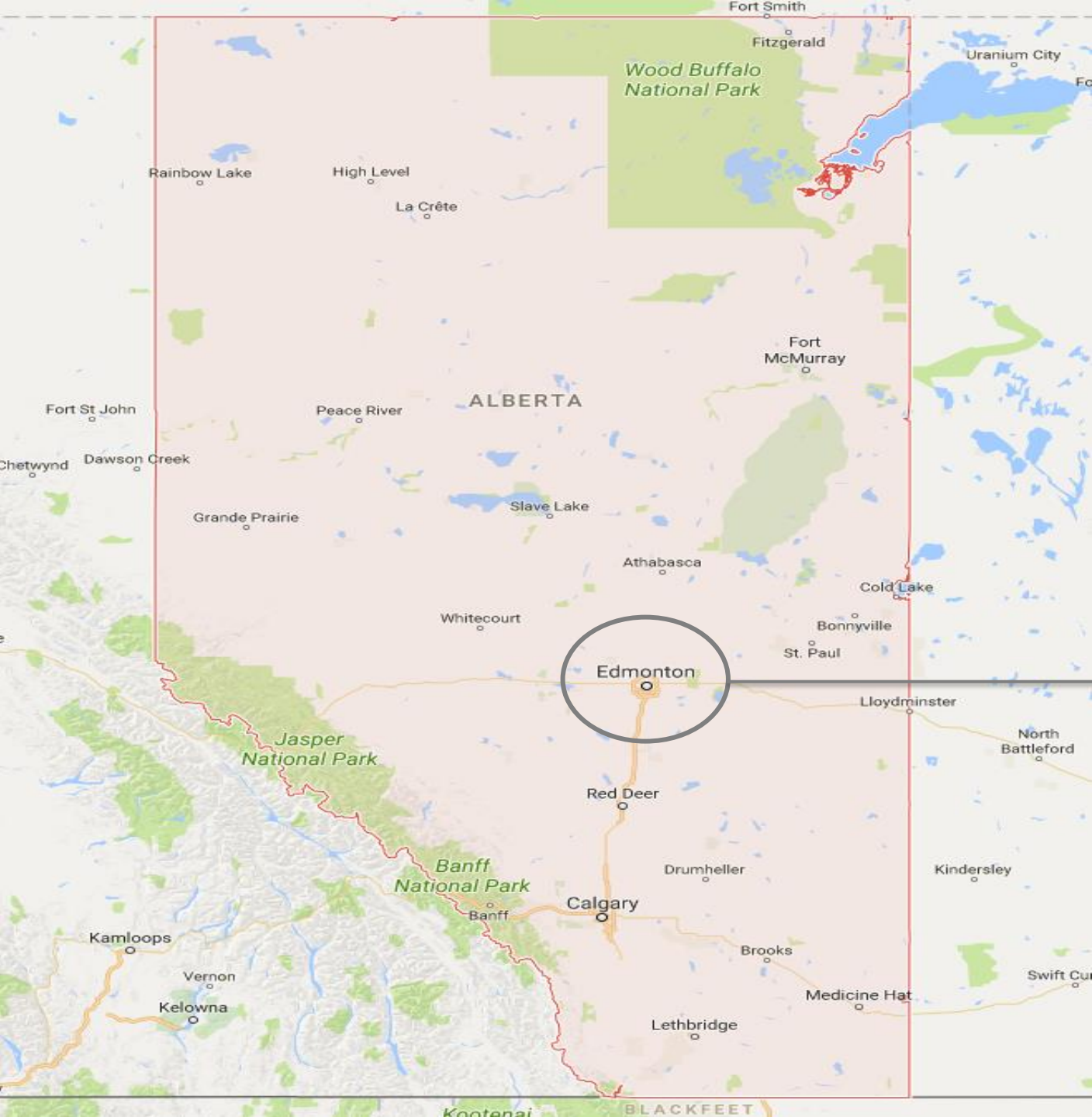
Christina Caffrey
Executive Advisor,
Calgary Emergency
Management Agency
Liaison Officer, CAN-TF2

Bill Adams
Regional Vice President
Western & Pacific
Insurance Bureau of Canada

- Alberta accounts for 67% of all disaster related insurance payouts.

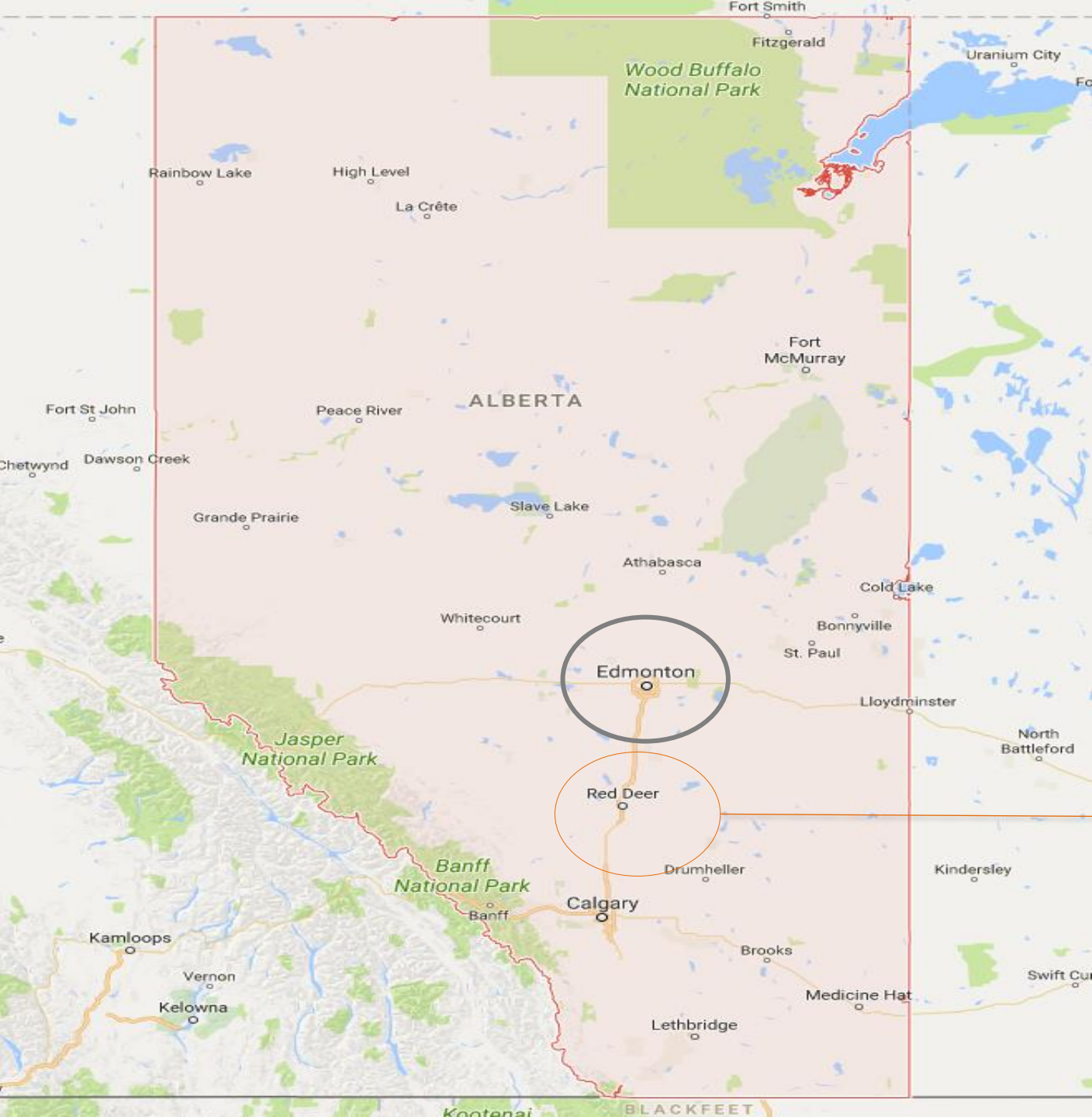


Insurance Bureau of Canada



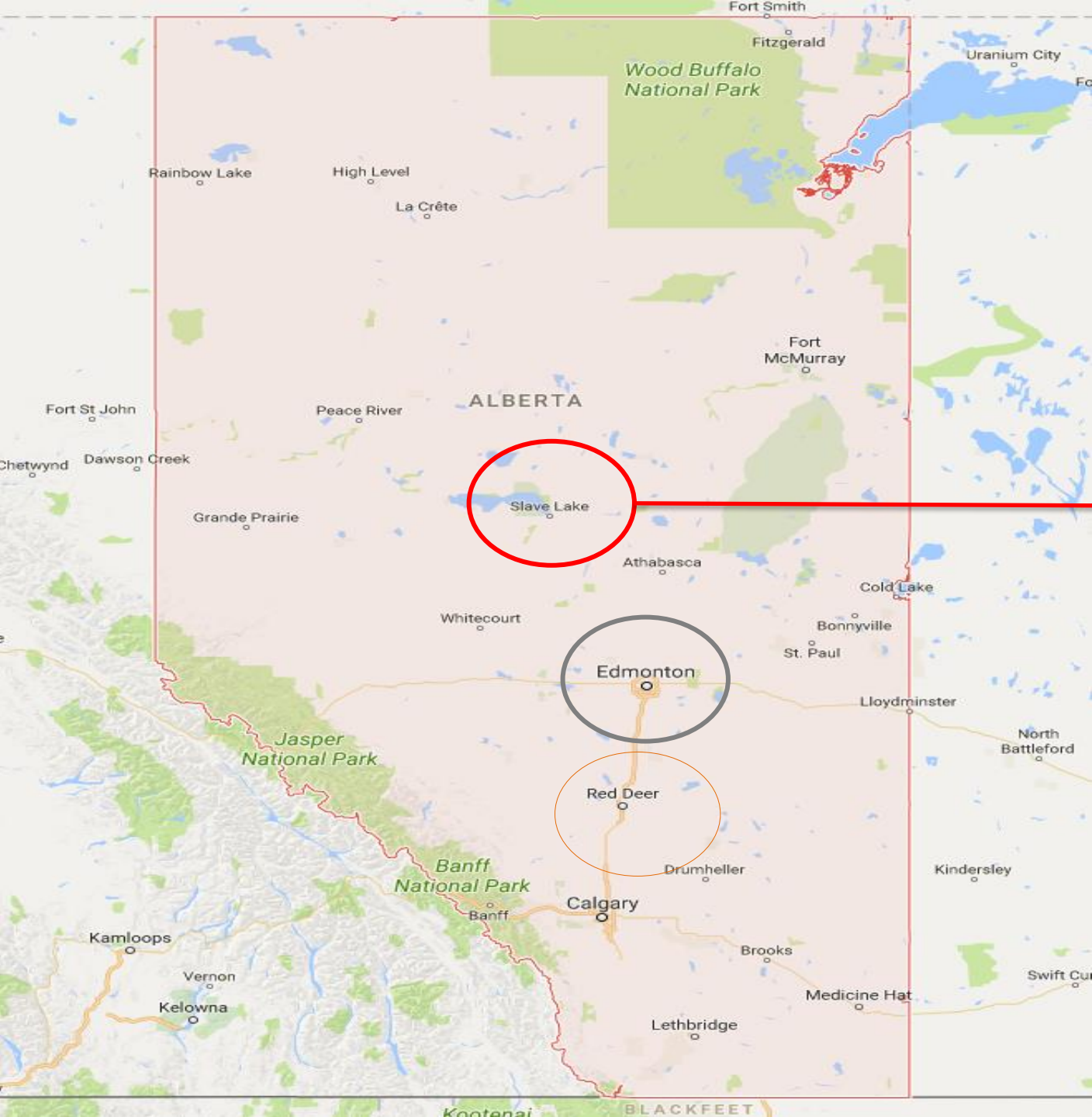
1987 Edmonton Tornado

- Occurred July 31st (“Black Friday”)
- F4 rated tornado
- 27 fatalities, over 300 injuries
- 1,700 individuals displaced



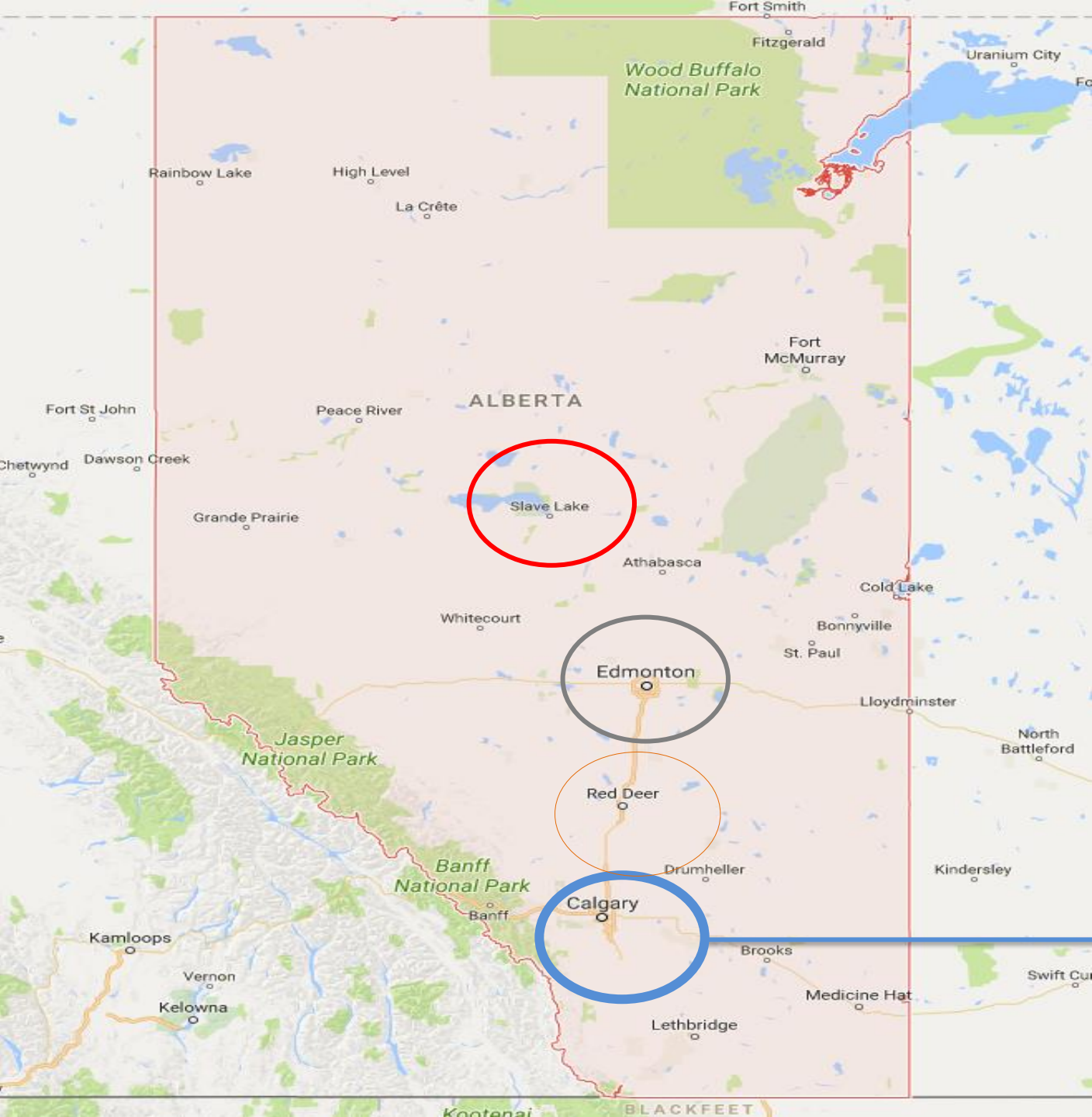
2000 Pine Lake Tornado

- Occurred July 14th
- 12 fatalities, over 140 injured
- F3 rated tornado
- 1,000 individuals displaced



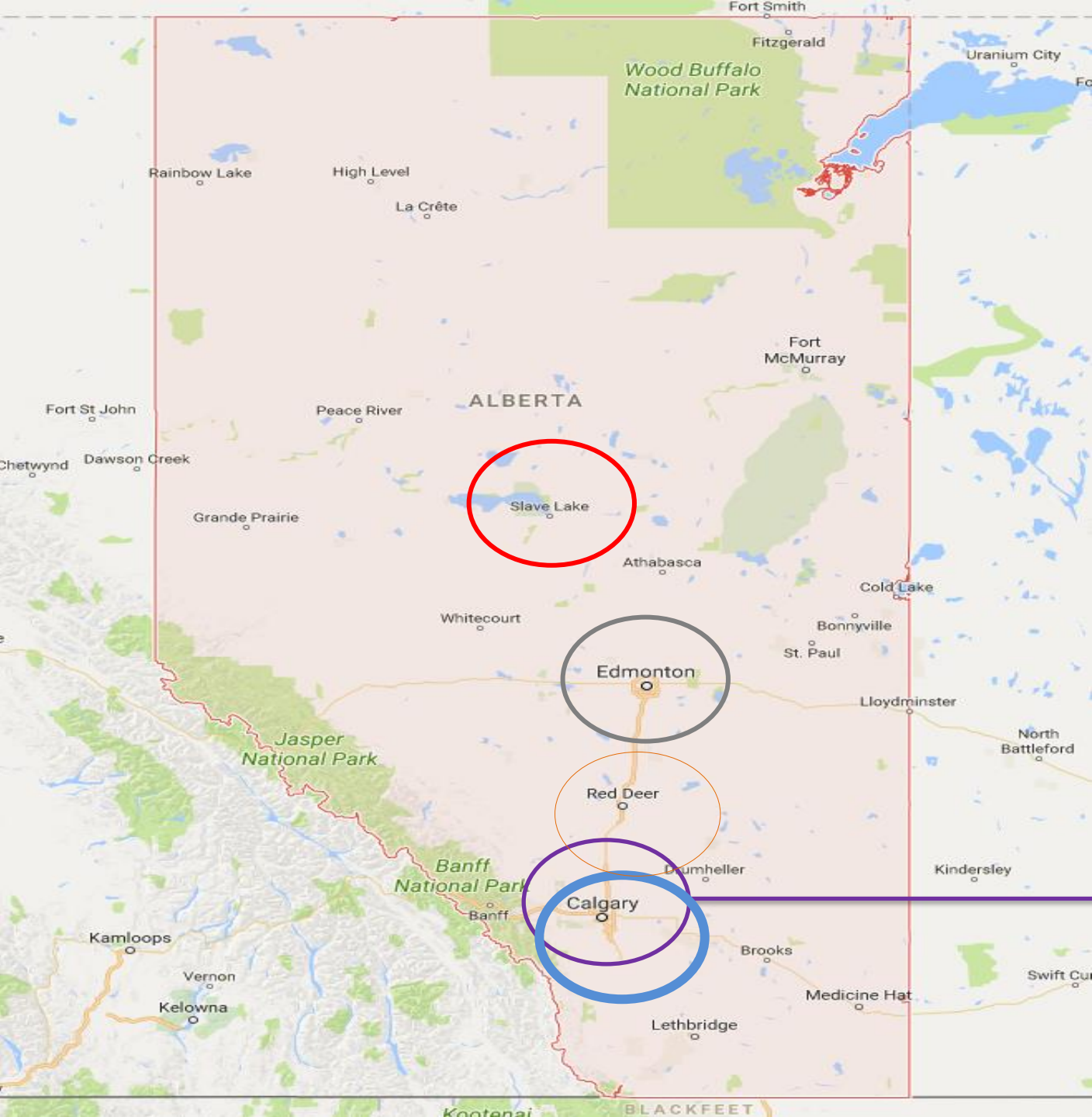
2011 Slave Lake Wildfire

- Began May 14th
- 10,000 residents evacuated
- 1,700 personnel deployed to aid



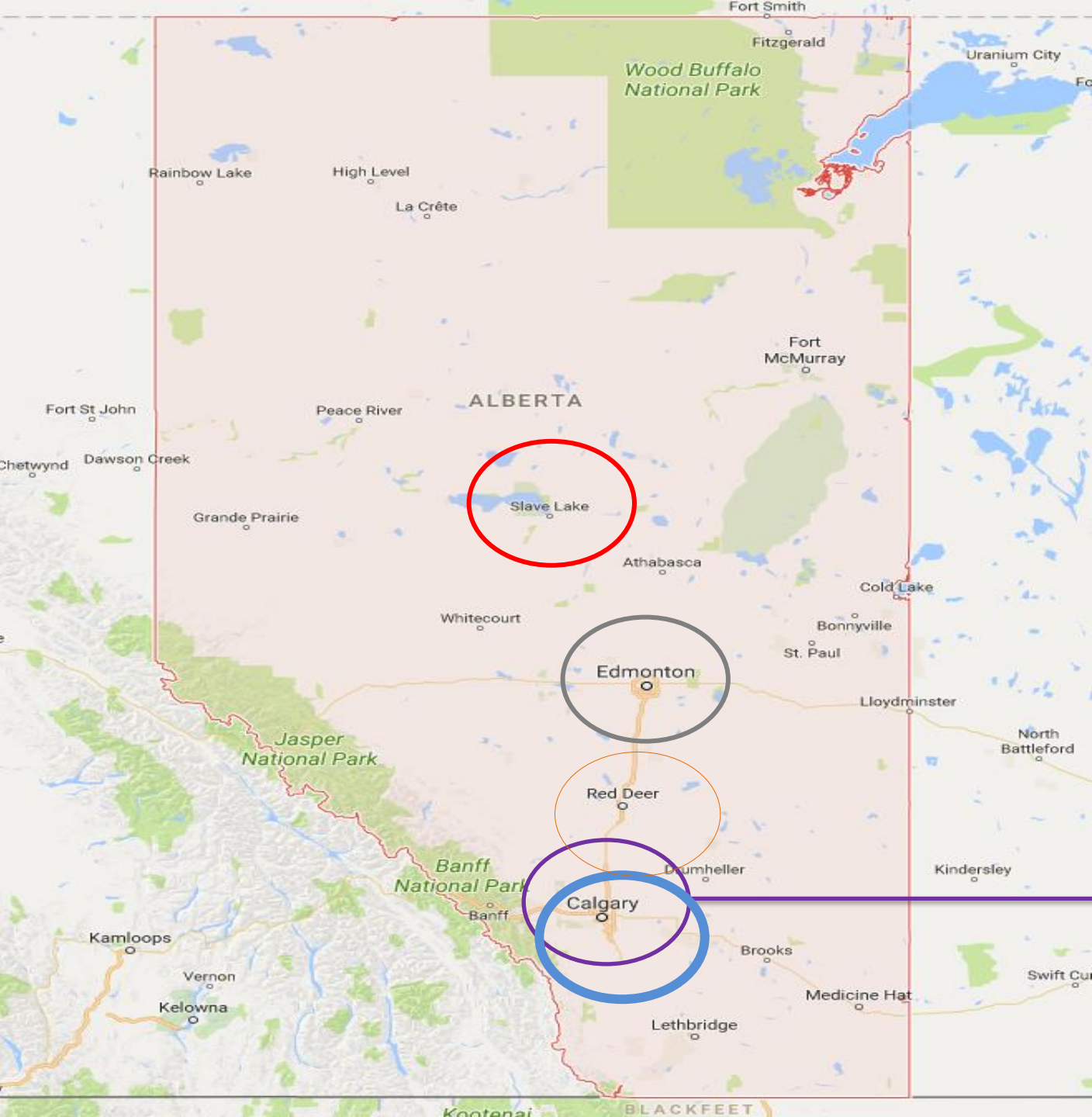
2013 Southern Alberta Flood

- Evacuations began June 20th
- Approximately 120,000 AB residents
- Bow, Elbow & Highwood rivers
- 32 SOLES declared in AB



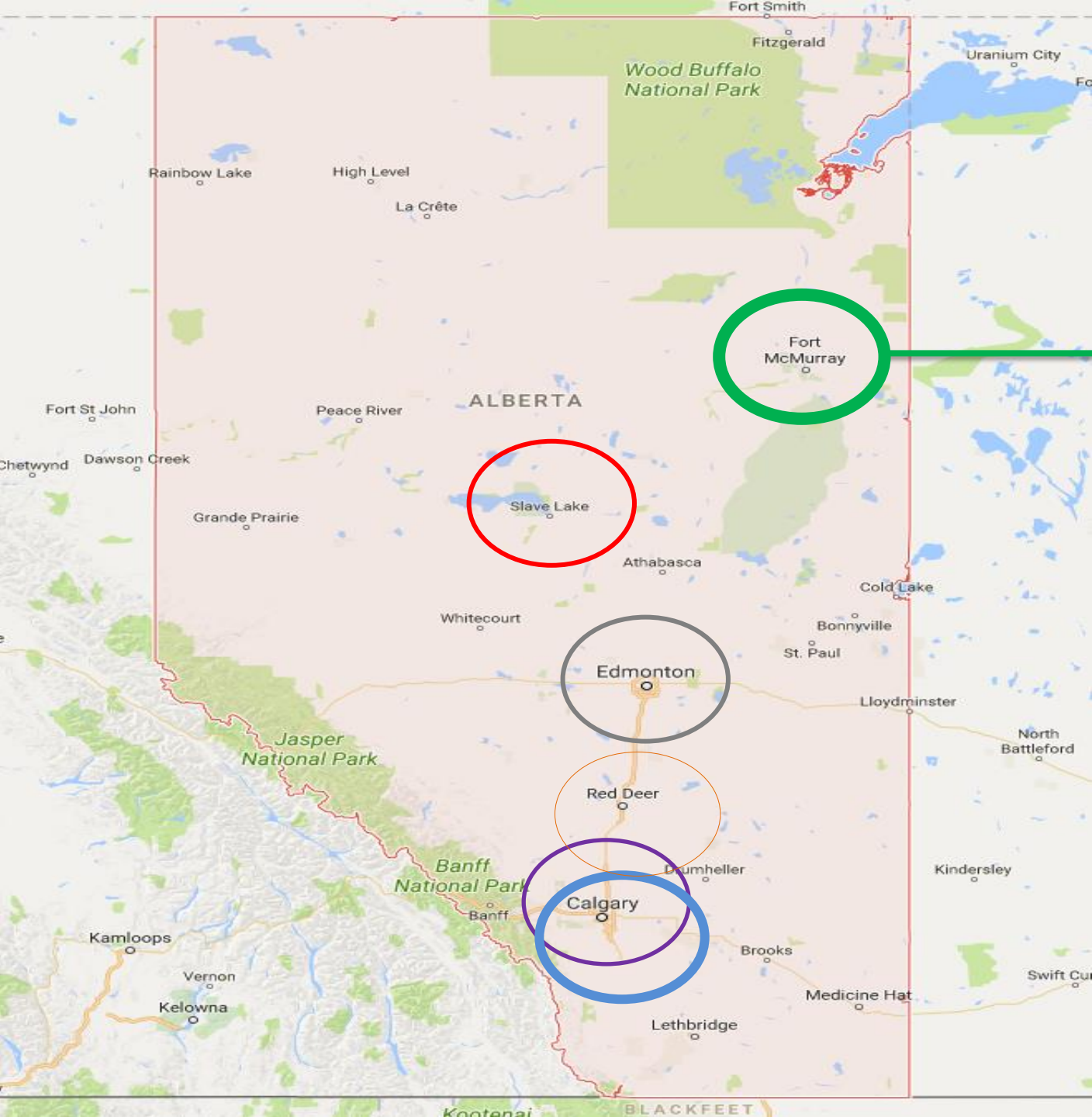
2014 September Snowstorm

- Occurred September 8th
- Approximately 30cm of snow
- ½ of Calgary's trees damaged
- ReTree YYC Program



2014 DT Power Outage

- Began October 11th
- Underground electrical fire
- 5,000 residents affected
- 112 buildings affected



2016 Fort McMurray Wildfire

- Began May 1st
- 80,000 residents evacuated
- 700 City personnel deployed
- 2,369 residents housed in Calgary



2013 Southern Alberta Flood



ROGERS

MISSISSAUGA
CYC

VIN ROOM

spa

6200 any car
has to be before
back shops



2016 Fort McMurray Wildfire



- Stakeholder support
- Well-oiled machines
- Recovery takes time
- Frequency & scale of events

Challenges to Regional Resilience

The Role of Funders in Emergency Response and Recovery

Lessons from the 2013 Southern Alberta Flood and 2016 Wood Buffalo
Fires

4 critical functions of community funders

- Galvanizing resources
- Coordination
- Getting resources where they are needed
- Mobilizing learnings

Galvanizing Resources

- Attracting resources
- Synthesizing information
- Educating donors



Coordination



- Funders tables
- Convening service providers
- Reaching across communities

Getting Resources to Where They are Needed



- Expediting grant making
- Matching volunteers to needs
- Providing long-term stability in funding

Mobilizing Learnings

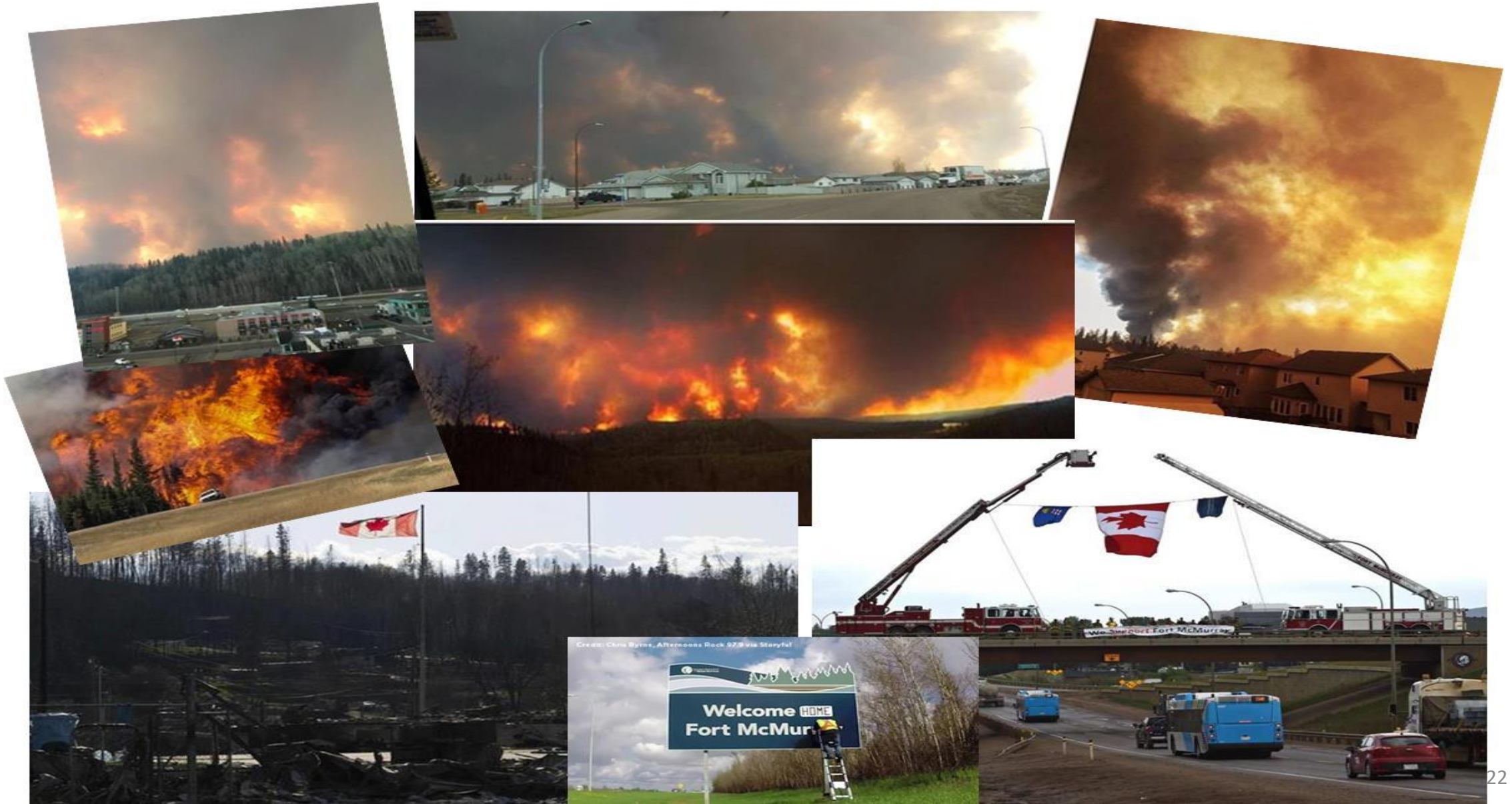
- Continuous improvement
- Communicating widely
- Planning
- Building community resiliency



Thank you to our community



Fort McMurray (Horse River) Wildfire May/June 2016



RMWB Wildfire: “The Beast”

The RMWB Wildfire was an unprecedented natural disaster.

RMWB at 25600 square miles is bigger than West Virginia. Fort McMurray is 23 square miles

The Wildfire was 2278 square miles is bigger than the Province of Prince Edward Island.

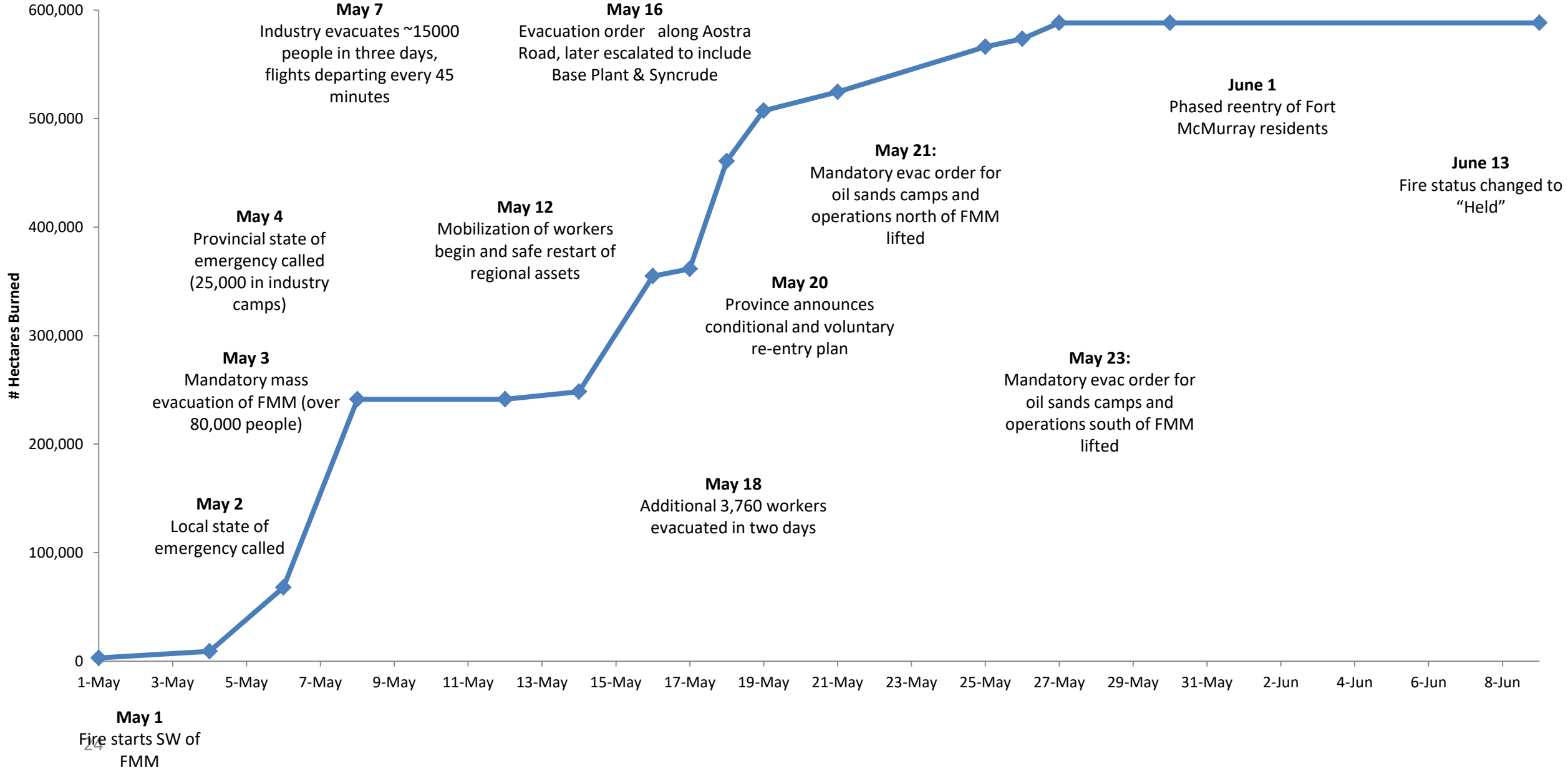
90% of the RMWB tax revenues come from Industry

Fast Facts:

- Largest fire evacuation in Alberta history
- 88,000 individuals evacuated
- Insurance costs to exceed \$3.7B (IBC); costliest insurance disaster in Canadian history.
- 2,400 homes and buildings burned
- 2,750 firefighters including international support
- 94 Helicopters deployed
- 236 pieces of heavy equipment used
- 442 km of dozer guard completed

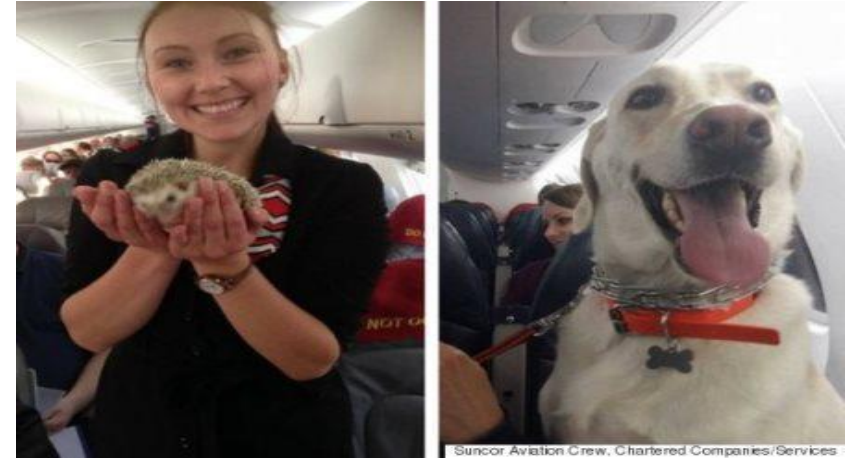


RMWB Wildfire Timeline



Industry Support

- **Industry Liaison's** - Inserted subject matter experts within the Regional Emergency Operations Centre and Alberta Agriculture & Forestry
- **Roadblock management** – Defined tracking and entry process. Password, wristbands, badges, active list
- **Fire response** – Industrial firefighters provided urban and rural firefighting support
- **Provided refuge to community members and impacted colleagues** - ~25,000 people housed in Industrial camps. 2500 beds provided for external emergency responders and support teams
- **Transportation** – Evacuated over 15,000 people including pets via aerodromes, with flights leaving every 45 minutes. Alternate airstrip due to NOTAM
- **Liaising with the community** - Regular contact maintained with RMWB and Aboriginal communities. Offered assistance and facilitated resources including bottled water, supply trucks, food, medications and gas cards.

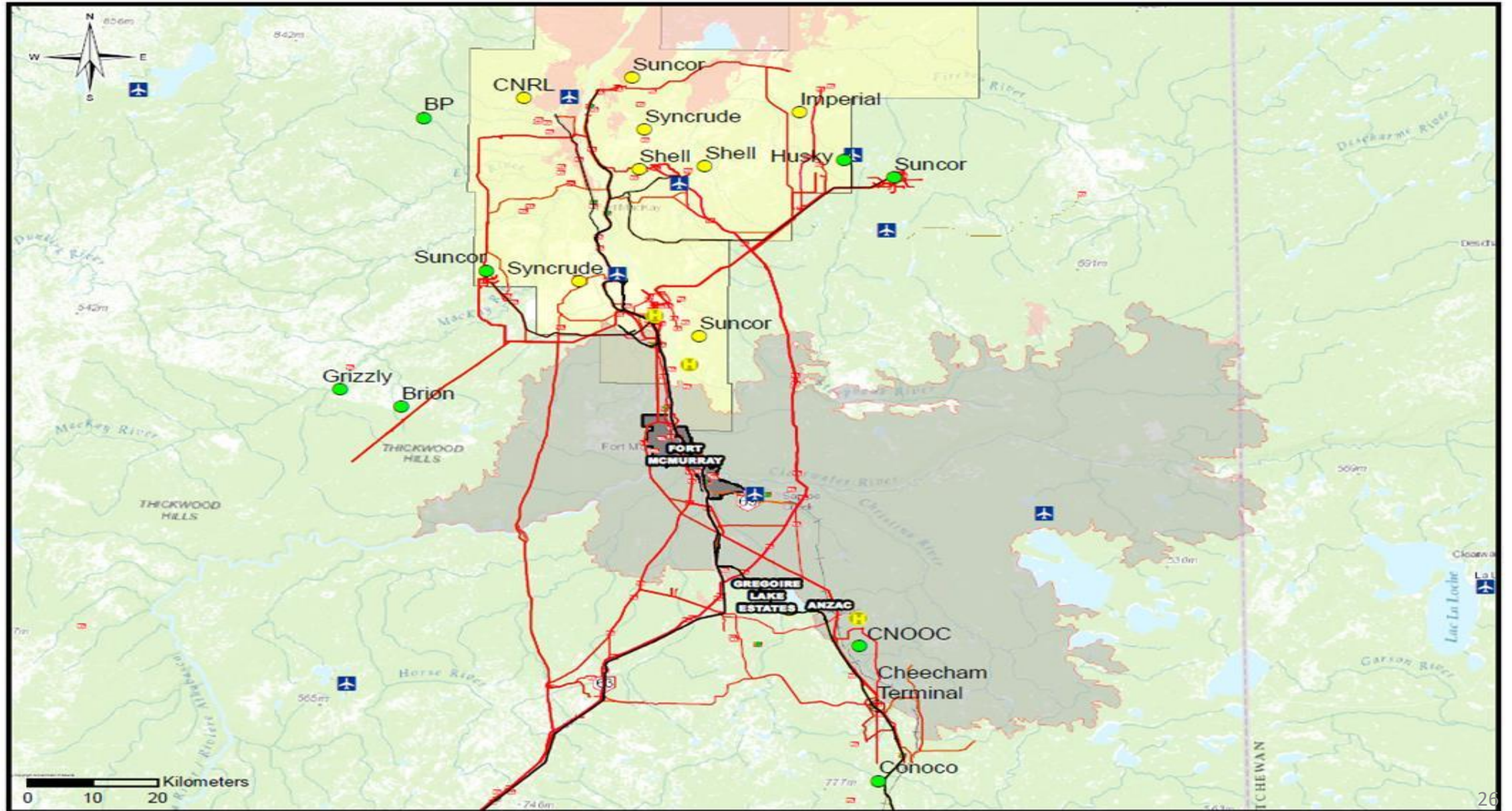


Pets of all shapes and sizes made their way onto Suncor planes during the evacuation



Watering down hotspots was part of the fire response effort

WILDFIRE IMPACT – Industrial Areas



Industry Liaison Observations

Prevention & Mitigation

- Inconsistent wildfire hazard identification
- Use of Regulatory FireSmart and Wildfire Prevention programs

Preparedness

- Identification of critical assets
- Up to date contact lists
- Utilization of available Industry resources
- Regional and Industry Wildfire ERP's with evacuation triggers

Response

- Timely engagement of Industry in the response
- First Responders lack of knowledge of Industrial assets
- Industrial asset protection prioritization

Recovery

- Re-entry challenges

Actions to Date

Prevention & Mitigation

- Development of Wildfire Control Plans for Industry Players
- Adherence to Firesmart requirements

Preparedness

- Refresh the Mutual Aid group
- Identification of available and critical assets

Response

- Industry involvement in recent Mock exercises

Calgary



PNWER Disaster Resilience Symposium

Calgary Flood & Alberta Fires Response & Recovery

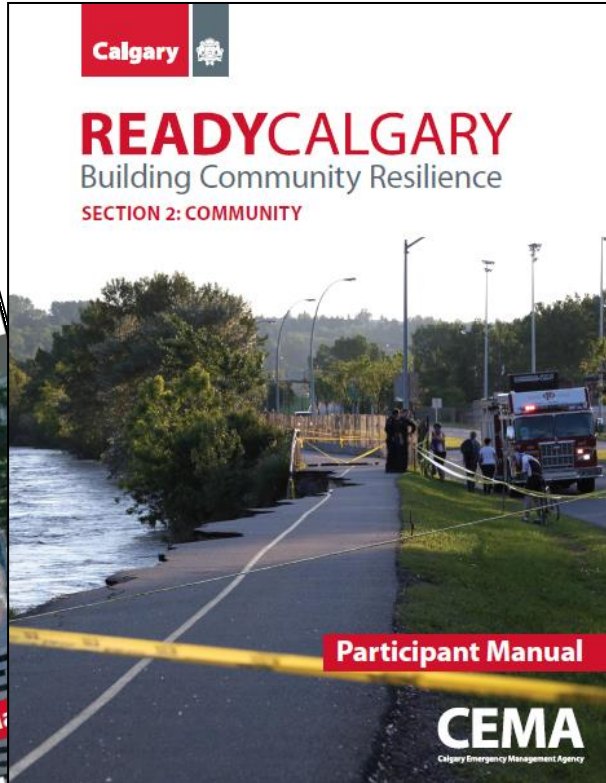
Christina Caffrey
Executive Advisor
Calgary Emergency Management Agency

Tuesday, July 25, 2017



“We can no longer afford to work at the speed of government”

LA Fire Capt.



Levels of community engagement

Public education and awareness campaigns
Community resilience and preparedness through READYCalgary



Business preparedness and continuity planning

Partner with Calgary Chamber of Commerce

Informing and educating the business community on hazards and steps to ensure continued operations



Voluntary organizations and volunteers

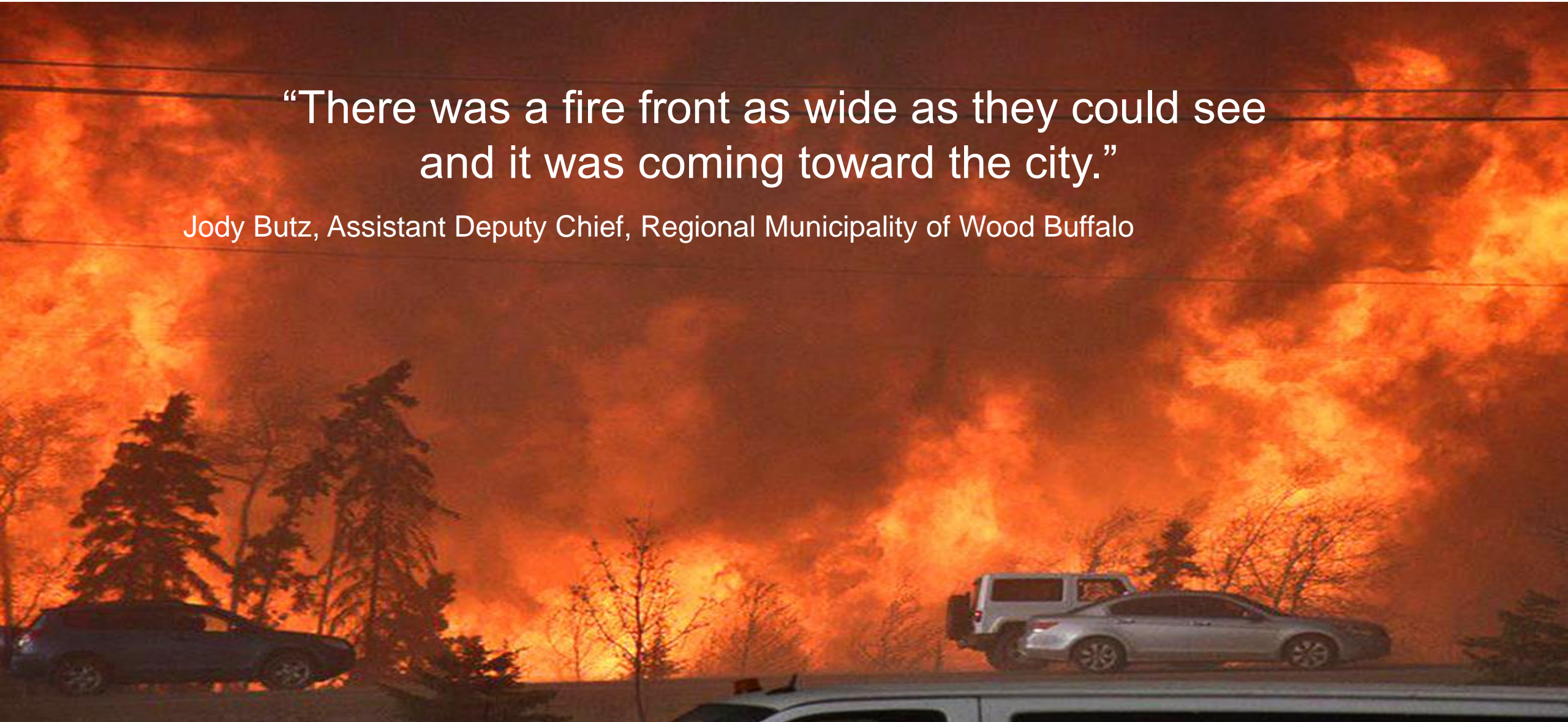
Emergency and disaster relief volunteers
Organized volunteer groups
Citizen volunteers

Engaging volunteer organizations and citizens in providing support and assistance following a disaster

The Horse River fire – “The Beast”

“There was a fire front as wide as they could see
and it was coming toward the city.”

Jody Butz, Assistant Deputy Chief, Regional Municipality of Wood Buffalo





A multi-faceted response





Canada Task Force 2 (CAN-TF2)

All-hazards disaster response team

Heavy urban search and rescue

Regional resilience



Redefine success





When a defining moment comes along, you define the moment, or the moment defines you



PNWER Disaster Resilience Symposium

Calgary flood and Alberta fires response and recovery

Bill Adams
Vice-President, Western

ibc.ca



About Insurance Bureau of Canada

- National trade association for Canada's **200** home, auto, business insurers

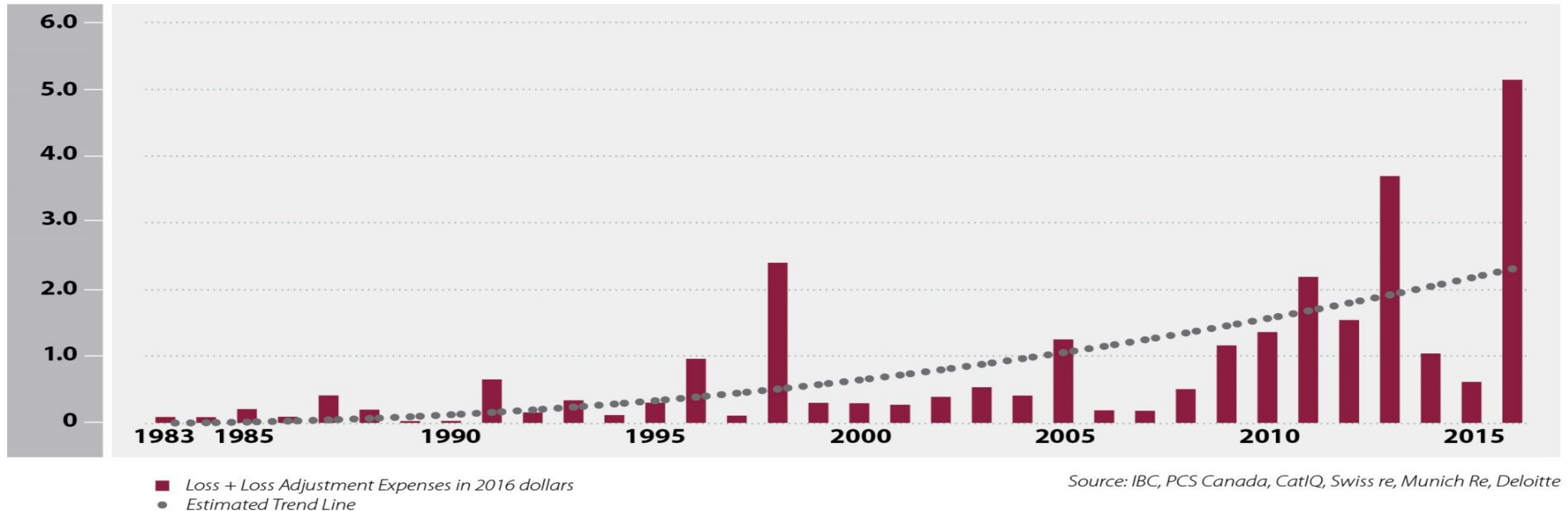
STRATEGIC PRIORITIES

Effective Auto
Insurance

Natural Catastrophes

Sound Regulatory
Environment

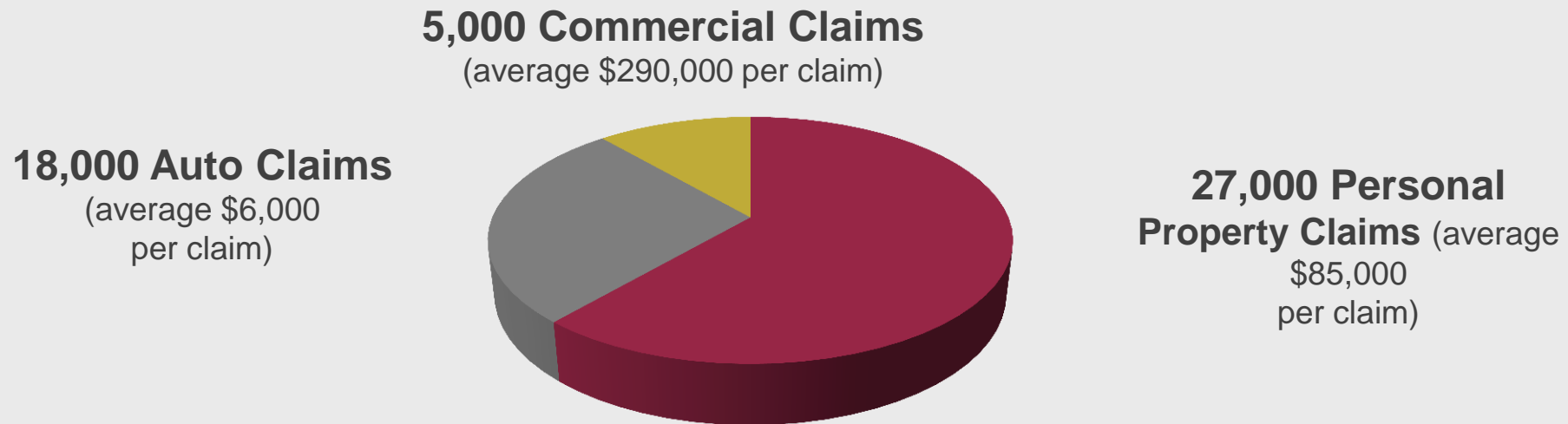
Catastrophic losses in Canada in \$000,000,000, 1983 to 2016





Insurance impacts of the wildfire

- Costliest insured natural disaster in Canadian history
- Insured damage now estimated at **\$3.7 billion**



IBC | Insurance Bureau
of Canada

BAC | Bureau d'assurance
du Canada

Community Assistance Mobile Pavilion
Unité mobile d'aide à la communauté



Children's Centre
Parental Supervision Required



2009/10 2010/11

Embedded in Fort McMurray







We will work together more in future

- Build stronger bonds of trust
- Recognize insurers as second responders
- Standardize operating procedures for next disaster
- Codify how we respond together

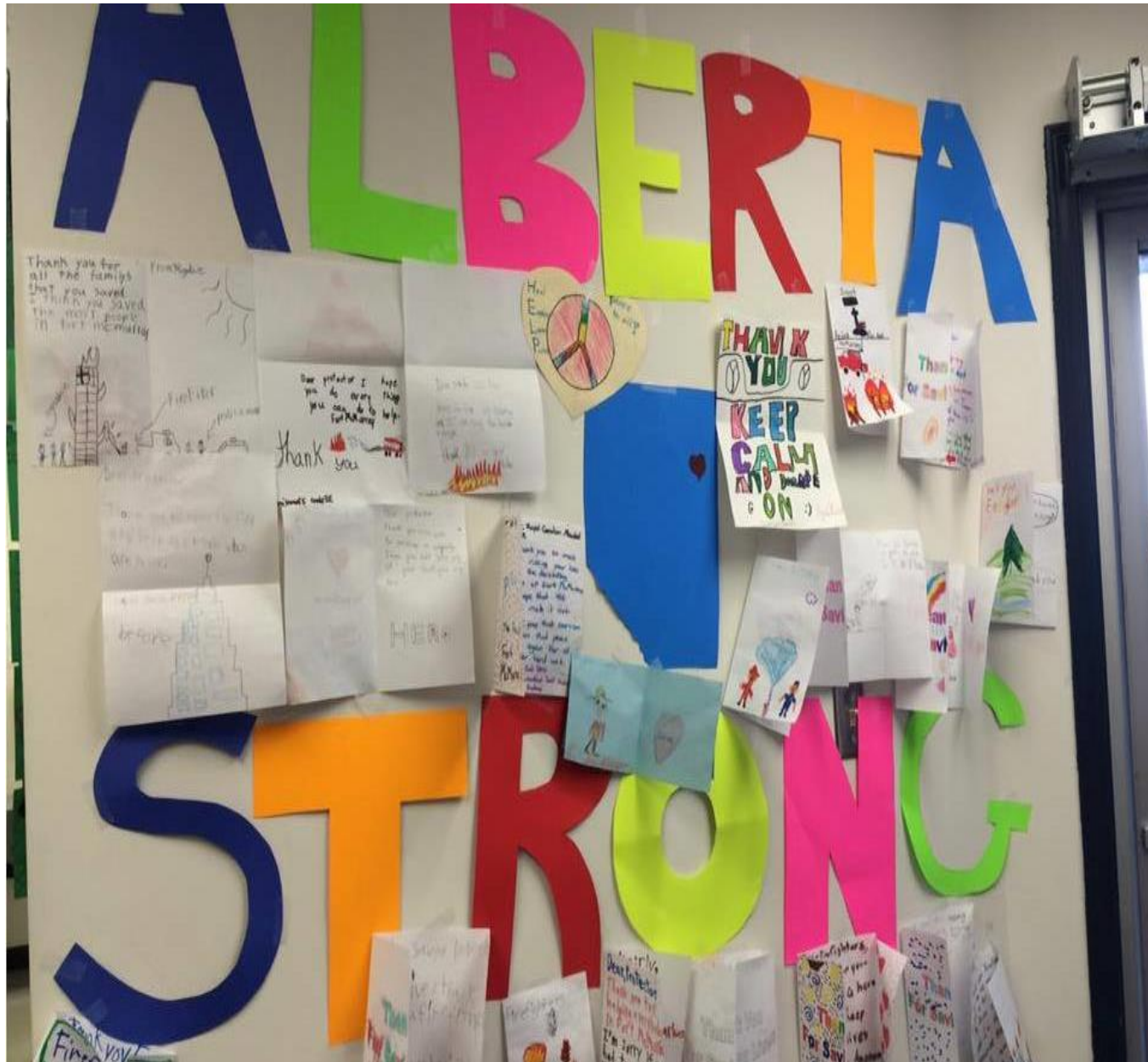
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