

APR 25 2018

ITEM: 11.1 VR2018-0029
Distribution
CITY CLERK'S DEPARTMENT



Flood Preparedness 2018

Presentation at Strategic Meeting of Council
April 25, 2018

The City of Calgary
CEMA & The Water Utility

ISC: Unrestricted

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Calgary




Current States of Local Emergency

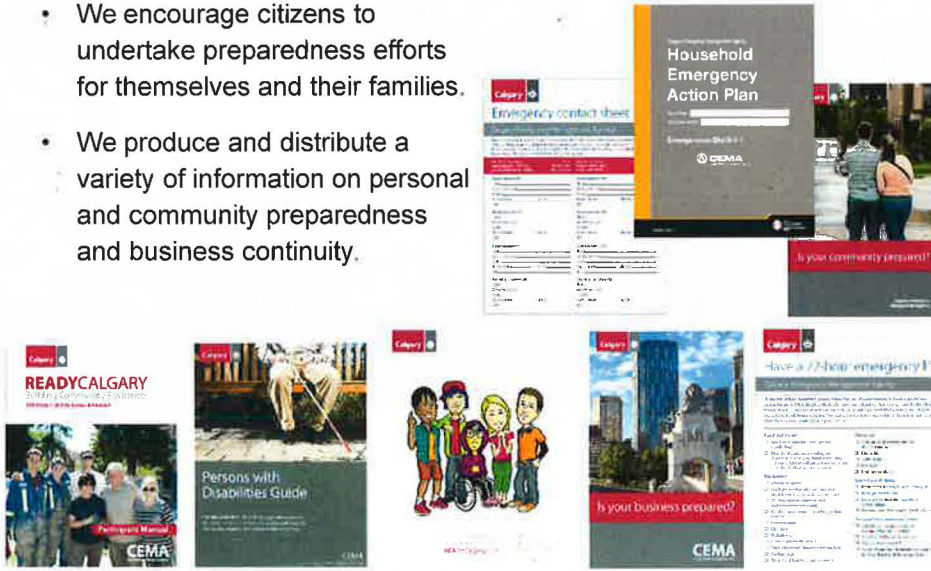
Westlock County
Village of Vilna
Lamont County
Village of Beiseker




Town of Drumheller
Siksika Reserve #146
Vulcan County
Village of Barnwell
Municipal District of Taber
County of Forty Mile No. 8

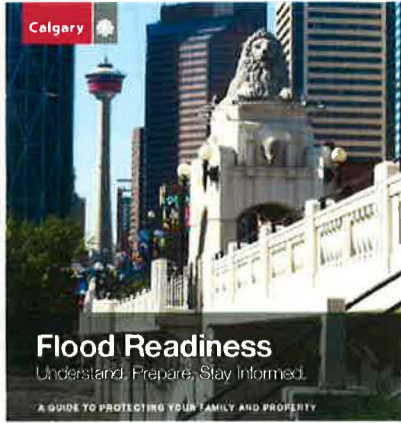
Calgary  **Download copies from www.calgary.ca/cema or call 311 to request hard copies**


- We encourage citizens to undertake preparedness efforts for themselves and their families.
- We produce and distribute a variety of information on personal and community preparedness and business continuity.



Calgary  **Flood Readiness Campaign**


- Disaster Alley booth
- Town Hall and Open House
- Council & MLA Memo
- Flood E-Newsletter
- ENMAX insert
- Report to Calgarians
- Social Media posts & ads
- 311 Updates
- Presentations at targeted Community Events
- City News Blogs
- Councillor and Community Association newsletters
- Employee communications
- Applications (e.g. City of Calgary, Alberta Emergency Alert, Public Safety Canada)
- Visit www.Calgary.ca/floodinfo for more information






Two Different Scenarios


Local Flooding



River Flooding

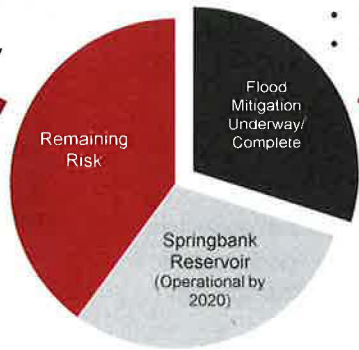


25/04/2018
Presentation
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What has The City done to mitigate floods?

- Bow upstream reservoir
- Enhanced Operations with TAU
- Complementary barriers



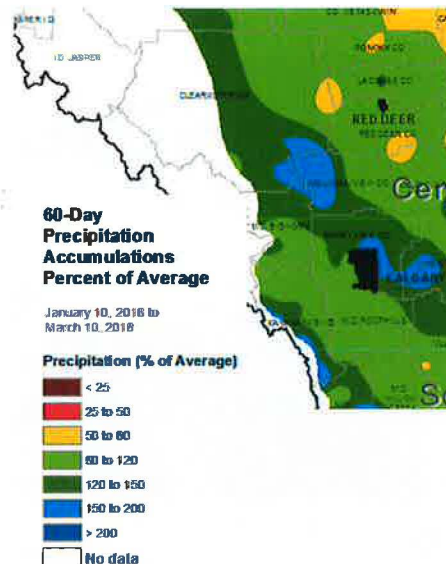
- Municipal complex, zoo, Deane House, Stampede barriers
- Barriers
- Flood recovery/erosion sites
- Stormwater gates
- Lift stations
- Glenmore Gates

May 1, 2018 | Presentation
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Understanding Current Conditions

- Key factor in flooding is rainfall – when and where. In 2013, snowpack accounted for only 10 to 15% of flooding.
- No expected additional risk compared to 2017
- Current snowpack 20-30% above normal.
- Below normal temperatures and normal precipitation through spring – longer snowmelt anticipated.
- Water Supply Outlook spring to fall: expected to be average to slightly above average



Upstream/ Dam Mitigation

- Bow River:
 - GoA - TransAlta operating agreement in place
 - Ghost Reservoir currently 1m lower than typical for time of year (additional capacity for flood flows)
- Elbow River:
 - Glenmore Reservoir also currently 1m lower than typical during flood season (to accommodate dam construction)





Local Mitigation

- 24/7 monitoring May to July (weather and river flows) – already underway for 2018
- Response Plans include temporary barriers, evacuations, closing bridges and pathways
 - Primary focus is public safety and protecting critical infrastructure
- EOC and H2OC is ready in case of activation



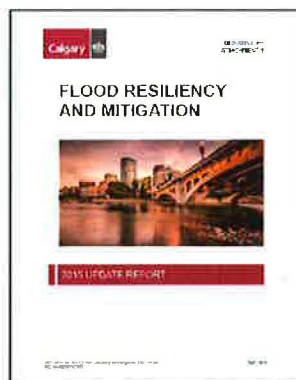
Flood map for 1:50 event

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Flood Mitigation Status

- Flood Mitigation Update Report to UCS: Feb 14, 2018
- Update on Bow River Working Group recommendations to UCS: May 9, 2018
- Work ongoing on flood mitigation, flood risk education, communications and engagement



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