Project Partner: Electoral Area A (Salmon River-Lakes)

What is the study area?



How are we assessing hazard exposure?



What is the long-term goal?

Reduce risks and increase the resilience of communities to natural hazards in a changing climate by providing information supporting informed decision making and regional collaboration.

What Assets and People are assessed in Electoral Area A?







3,400 People \$680M Buildings

3,300 km Transportation Infrastructure

670 km Utilities

What information does this assessment provide?

- Regional flood, alluvial fan, and landslide hazard mapping.
- Identification of people and assets in mapped hazard areas.

What is the intended use?

Inform emergency management, mitigation planning, policy and regulation development, and regional understanding of how changes in climate could affect identified hazards.

- Regional study does not assess site-specific losses from specific hazard scenarios.
- Unidentified hazards exist and changing climate, environment, and development may warrant future updates.

Assets and People Identified in Hazard Areas: Electoral Area A (Salmon River-Lakes)



Floodplains include areas that may be inundated in a 200-year return period flood from watersheds larger than 10 km²



Alluvial fans include areas that may be inundated or impacted by water, sediment and debris at the outlet of steep channels.

0

People

0km

Utilities

0km

Railway





Landslide areas of interest are locations where landslides may originate and include existing mapped landslides, slopes steeper than 30%, or where BGC assessed a >1% chance that a deep-seated earth slide exists.



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\$240,000

Buildings

1km

Road





Road

\$97M

90km

Utilities



Project Partner: Electoral Area C (Chilako River-Nechako)

What is the study area?



How are we assessing hazard exposure?



What is the long-term goal?

Reduce risks and increase the resilience of communities to natural hazards in a changing climate by providing information supporting informed decision making and regional collaboration.

What Assets and People are assessed in Electoral Area C?







3,600 People \$690M Buildings

6,300 km Transportation Infrastructure

680 km Utilities

What information does this assessment provide?

- Regional flood, alluvial fan, and landslide hazard mapping.
- Identification of people and assets in mapped hazard areas.

What is the intended use?

Inform emergency management, mitigation planning, policy and regulation development, and regional understanding of how changes in climate could affect identified hazards.

- Regional study does not assess site-specific losses from specific hazard scenarios.
- Unidentified hazards exist and changing climate, environment, and development may warrant future updates.

Assets and People Identified in Hazard Areas: Electoral Area C (Chilako River-Nechako)



Floodplains include areas that may be inundated in a 200-year return period flood from watersheds larger than 10 km^2 .

400

People

36km

Utilities

2km

Railway

\$94M

Buildings

180km

Road

Alluvial Fans



Alluvial fans include areas that may be inundated or impacted by water, sediment and debris at the outlet of steep channels.



Landslides



Landslide areas of interest are locations where landslides may originate and include existing mapped landslides, slopes steeper than 30%, or where BGC assessed a >1% chance that a deep-seated earth slide exists.







Project Partner: Electoral Area D (Tabor Lake-Stone Creek)

What is the study area?



How are we assessing hazard exposure?



What is the long-term goal?

Reduce risks and increase the resilience of communities to natural hazards in a changing climate by providing information supporting informed decision making and regional collaboration.

What Assets and People are assessed in Electoral Area D?







4,300 People \$850M Buildings

1,800 km Transportation Infrastructure

910 km Utilities

What information does this assessment provide?

- Regional flood, alluvial fan, and landslide hazard mapping.
- Identification of people and assets in mapped hazard areas.

What is the intended use?

Inform emergency management, mitigation planning, policy and regulation development, and regional understanding of how changes in climate could affect identified hazards.

- Regional study does not assess site-specific losses from specific hazard scenarios.
- Unidentified hazards exist and changing climate, environment, and development may warrant future updates.

Assets and People Identified in Hazard Areas: Electoral Area D (Tabor Lake-Stone Creek)



Alluvial fans include areas that may be inundated or impacted by water, sediment and debris at the outlet of steep channels.





Landslide areas of interest are locations where landslides may originate and include existing mapped landslides, slopes steeper than 30%, or where BGC assessed a >1% chance that a deep-seated earth slide exists.



Fraser Basin Council

200-year return period flood from watersheds larger than 10 $\mbox{km}^2.$

\$44M1600kmBuildingsPeopleRailway32km22kmRoadUtilities



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Project Partner: Electoral Area E (Woodpecker-Hixon)

What is the study area?



How are we assessing hazard exposure?



What is the long-term goal?

Reduce risks and increase the resilience of communities to natural hazards in a changing climate by providing information supporting informed decision making and regional collaboration.

What Assets and People are assessed in Electoral Area E?







530 People \$66M Buildings

1,500 km Transportation Infrastructure

330 km Utilities

What information does this assessment provide?

- Regional flood, alluvial fan, and landslide hazard mapping.
- Identification of people and assets in mapped hazard areas.

What is the intended use?

Inform emergency management, mitigation planning, policy and regulation development, and regional understanding of how changes in climate could affect identified hazards.

- Regional study does not assess site-specific losses from specific hazard scenarios.
- Unidentified hazards exist and changing climate, environment, and development may warrant future updates.

Assets and People Identified in Hazard Areas: Electoral Area E (Woodpecker-Hixon)



Floodplains include areas that may be inundated in a 200-year return period flood from watersheds larger than 10 km²

42

People

13km

Utilities

2km

Railway

\$9.3M

Buildings

19km

Road



Alluvial fans include areas that may be inundated or impacted by water, sediment and debris at the outlet of steep channels.

23

People

5km

Utilities

0km

Railway





Landslide areas of interest are locations where landslides may originate and include existing mapped landslides, slopes steeper than 30%, or where BGC assessed a >1% chance that a deep-seated earth slide exists.



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\$4.6M

Buildings

3km

Road



Project Partner: Electoral Area F (Willow River-Upper Fraser Valley)

What is the study area?



How are we assessing hazard exposure?



What is the long-term goal?

Reduce risks and increase the resilience of communities to natural hazards in a changing climate by providing information supporting informed decision making and regional collaboration.

What Assets and People are assessed in Electoral Area F?







1,300 People \$190M Buildings

15,000 km Transportation Infrastructure

450 km Utilities

What information does this assessment provide?

- Regional flood, alluvial fan, and landslide hazard mapping.
- Identification of people and assets in mapped hazard areas.

What is the intended use?

Inform emergency management, mitigation planning, policy and regulation development, and regional understanding of how changes in climate could affect identified hazards.

- Regional study does not assess site-specific losses from specific hazard scenarios.
- Unidentified hazards exist and changing climate, environment, and development may warrant future updates.

Assets and People Identified in Hazard Areas: Electoral Area F (Willow River-Upper Fraser Valley)

Floodplains



Floodplains include areas that may be inundated in a 200-year return period flood from watersheds larger than 10 $\rm km^2$.



Alluvial fans include areas that may be inundated or impacted by water, sediment and debris at the outlet of steep channels.

49

People

20km

Utilities

20km

Railway





Landslide areas of interest are locations where landslides may originate and include existing mapped landslides, slopes steeper than 30%, or where BGC assessed a >1% chance that a deep-seated earth slide exists.



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\$12M

Buildings

54km

Road





Utilities

Road

Fact Sheet No. 7

Project Partner: Electoral Area G (Crooked River-Parsnip)

What is the study area?



How are we assessing hazard exposure?



What is the long-term goal?

Reduce risks and increase the resilience of communities to natural hazards in a changing climate by providing information supporting informed decision making and regional collaboration.

What Assets and People are assessed in Electoral Area G?







580 People \$460M Buildings

22,000 km Transportation Infrastructure

1,200 km Utilities

What information does this assessment provide?

- Regional flood, alluvial fan, and landslide hazard mapping.
- Identification of people and assets in mapped hazard areas.

What is the intended use?

Inform emergency management, mitigation planning, policy and regulation development, and regional understanding of how changes in climate could affect identified hazards.

- Regional study does not assess site-specific losses from specific hazard scenarios.
- Unidentified hazards exist and changing climate, environment, and development may warrant future updates.

Alluvial Fans

Assets and People Identified in Hazard Areas: Electoral Area G (Crooked River-Parsnip)

Floodplains



Floodplains include areas that may be inundated in a 200-year return period flood from watersheds larger than 10 $\rm km^2.$

33

People

61km

Utilities

\$330M

Buildings

340km

Road

33km

Railway

Alluvial fans include areas that may be inundated or impacted by water, sediment and debris at the outlet of steep channels.

12

People

8km

Utilities

7km

Railway





Landslide areas of interest are locations where landslides may originate and include existing mapped landslides, slopes steeper than 30%, or where BGC assessed a >1% chance that a deep-seated earth slide exists.





\$50M

Buildings

31km

Road



Project Partner: Electoral Area H (Robson Valley-Canoe)

What is the study area?



How are we assessing hazard exposure?



What is the long-term goal?

Reduce risks and increase the resilience of communities to natural hazards in a changing climate by providing information supporting informed decision making and regional collaboration.

What Assets and People are assessed in Electoral Area H?







1,800 People \$370M Buildings

7,600 km Transportation Infrastructure

1,100 km Utilities

What information does this assessment provide?

- Regional flood, alluvial fan, and landslide hazard mapping.
- Identification of people and assets in mapped hazard areas.

What is the intended use?

Inform emergency management, mitigation planning, policy and regulation development, and regional understanding of how changes in climate could affect identified hazards.

- Regional study does not assess site-specific losses from specific hazard scenarios.
- Unidentified hazards exist and changing climate, environment, and development may warrant future updates.

Assets and People Identified in Hazard Areas: Electoral Area H (Robson Valley-Canoe)



Floodplains include areas that may be inundated in a 200-year return period flood from watersheds larger than 10 km².



Alluvial fans include areas that may be inundated or impacted by water, sediment and debris at the outlet of steep channels.

530

People

2**80km**

Utilities

73km

Railway





Landslide areas of interest are locations where landslides may originate and include existing mapped landslides, slopes steeper than 30%, or where BGC assessed a >1% chance that a deep-seated earth slide exists.





\$150M

Buildings

130km

Road

Fraser Basin Council BGC



Project Partner: Regional District of Fraser-Fort George

What is the study area?



How are we assessing hazard exposure?



What is the long-term goal?

Reduce risks and increase the resilience of communities to natural hazards in a changing climate by providing information supporting informed decision making and regional collaboration.

What Assets and People are assessed in RDFFG?







97,000 People

\$17B Buildings

60,000 km Transportation Infrastructure

11,000 km Utilities

What information does this assessment provide?

- Regional flood, alluvial fan, and landslide hazard mapping.
- Identification of people and assets in mapped hazard areas.

What is the intended use?

Inform emergency management, mitigation planning, policy and regulation development, and regional understanding of how changes in climate could affect identified hazards.

- Regional study does not assess site-specific losses from specific hazard scenarios.
- Unidentified hazards exist and changing climate, environment, and development may warrant future updates.

Assets and People Identified in Hazard Areas: RDFFG



Floodplains include areas that may be inundated in a 200-year return period flood from watersheds larger than 10 km^2 .

5,000

People

540km

Utilities

130km

Railway

\$1.6B

Buildings

,300km

Road



Alluvial fans include areas that may be inundated or impacted by water, sediment and debris at the outlet of steep channels.

2,300

People

420km

Utilities

110km

Railway



Landslide areas of interest are locations where landslides may originate and include existing mapped landslides, slopes steeper than 30%, or where BGC assessed a >1% chance that a deep-seated earth slide exists.



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\$420M

Buildings

560km

Road

