

ALBERTA FLOODS WEBSITE TUTORIAL

<https://floods.alberta.ca/>

The screenshot shows the 'Welcome!' page of the Flood Awareness Map Application. At the top left, there is the Alberta Government logo and the text 'Flood Awareness Map Application'. The main content area features a 'Welcome!' heading, a 'Disclaimer' box, and five filter buttons: 'Hazard', 'Inundation', 'Likelihood', 'Range', and 'Drafts'. The 'Drafts' button is highlighted with a red cloud-shaped callout. A red text box on the left side of the map area says 'Select the DRAFTS option from the Welcome page' with a red line pointing to the 'Drafts' button.

Disclaimer
Flood maps and alluvial fan boundaries displayed in the Flood Awareness Map Application are based on provincial flood studies developed using the best data available when a study is conducted. Information is subject to change, and the Government of Alberta assumes no responsibility for discrepancies at the time of use.

Hazard Flood hazard maps define floodway and flood fringe areas.

Inundation Flood inundation maps show areas at risk for different sized floods.

Likelihood Flood likelihood maps illustrate cumulative flood risk over 30 years.

Range Flood range maps compare two different sized floods.

Drafts Draft flood maps from new studies in the finalization process.

The screenshot shows the map view of the Flood Awareness Map Application. The map displays a topographic view of Alberta with major cities and rivers. A large, semi-transparent 'DRAFT' watermark is overlaid across the map. A red text box in the upper left of the map area says 'Zoom into Drumheller and select the "Drumheller River Hazard Study" icon' with a red line pointing to a blue location pin icon near Drumheller. Another red cloud-shaped callout highlights a blue location pin icon near Hanna. A circular icon with the number '4' is visible near Calgary.

Zoom into Drumheller and select the "Drumheller River Hazard Study" icon

Inundation Mapping - Flood Extents

Select the "Inundation" option

Overlays

- Alberta Township
- Cadastre
- Cross Sections
- Flood Areas
- Base Map

Base Map: Hybrid

Information Popup:

- Location: 51.465300°N, 112.723280°W
- River: Red Deer River
- Flood: 1:100 Open Water
- Flow: 1850 m³/s
- Regime: Regulated Flow
- Zone: Directly Flooded
- Flood Level: 683.98 m
- Flood Depth: 1.31 m

Legend:

- Open Water
- 1:1000
- 1:750
- 1:500
- 1:350
- 1:200
- 1:100 (Selected)
- 1:75
- 1:50
- 1:35
- 1:20
- 1:10
- 1.5
- 1.2
- Directly Flooded
- Protected by Flood Berm

Select the "layers" option from the side bar to open the base map options. Here you can turn on the satellite or hybrid base map options

Selecting a point on the map will bring up the flood level and depth for that location.

The slider allows the user to select the return period of the flood. The lower the return period the more frequent the flood. Ex. 1:100 has an occurrence of once every 100 years, or 1% chance per year. The 1:50 has a occurrence of once every 50 years, or 2% chance per year.

Find

By Address

Address:

Find Clear

Help finding by Address

Enter an Alberta address and press search. If searching for a place name such as Edmonton, please add Alberta to the search (Edmonton, Alberta) to ensure an Alberta location is found.

Press the "Clear" button to remove the address result from the map.

Address search may not be available for all areas. If your search is unsuccessful, please search using another method such as By Community or By Postal Code.

Legend:

- Open Water
- lee-Jam
- 1:1000
- 1:750
- 1:500
- 1:350
- 1:200
- 1:100 (Selected)
- 1:75
- 1:50
- 1:35
- 1:20
- 1:10
- 1.5
- 1.2
- Directly Flooded
- Protected by Flood Berm

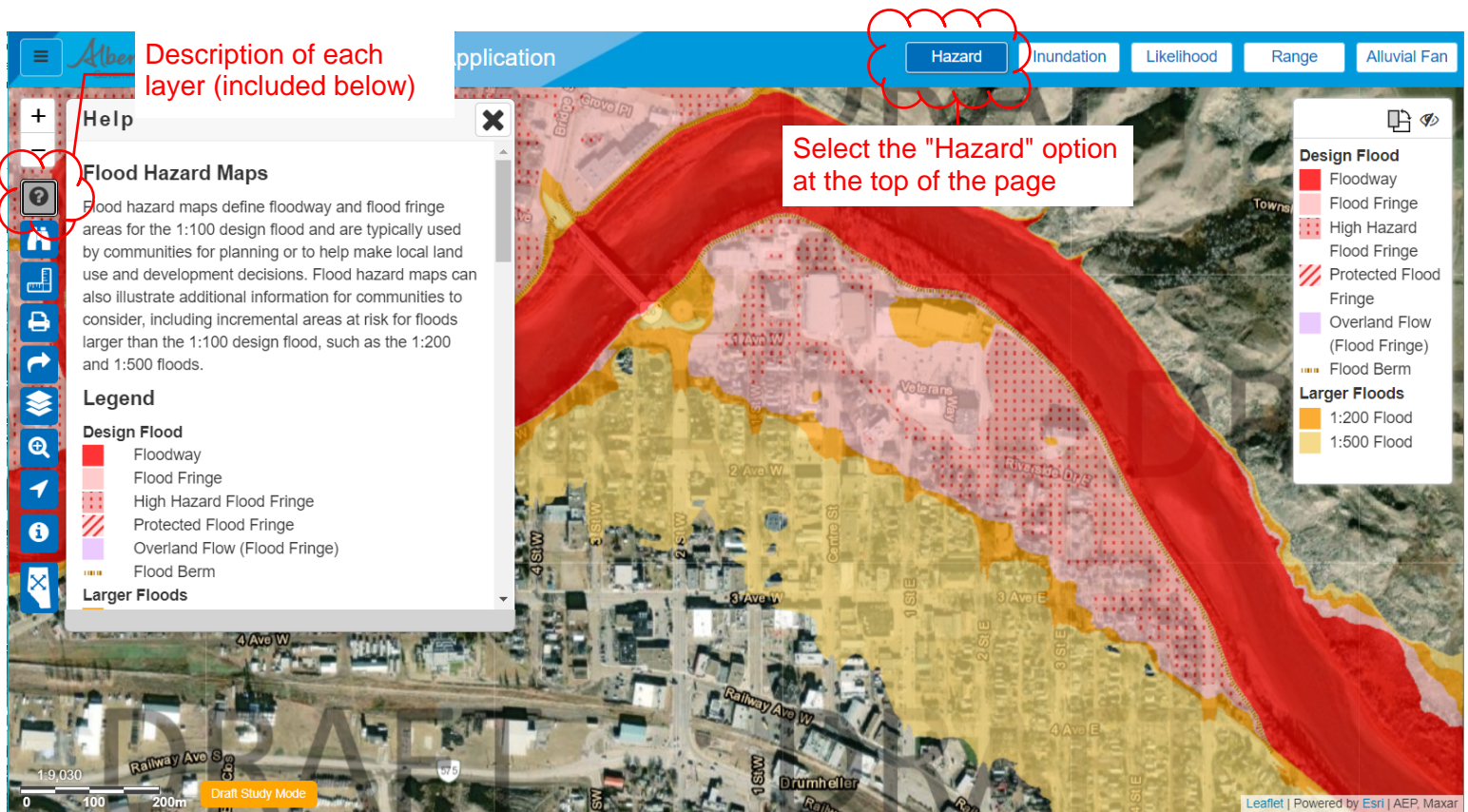
The binocular option allows users to enter their address to find their house on the map

Areas that are protected by a permanent berm are shown with a different layer

Legend: Directly Flooded, Protected by Flood Berm

Flood Hazard Mapping - Land Use and Development Planning

The flood hazard mapping is used by the Town of Drumheller for land use planning and for development application reviews. The different flood hazard areas have different development regulations which are provided in the Land Use Bylaws here <https://www.drumheller.ca/public/download/files/226259>



Flood Hazard Area – The flood hazard area is the area of land that will be flooded during the 1:100 design flood. The flood hazard area is typically divided into two main zones, the floodway and the flood fringe, and may include additional flood fringe sub-zones.

Floodway – The floodway typically represents the area of highest hazard where design flood flows are deepest, fastest, and most destructive.

Flood Fringe – The flood fringe is the part of the flood hazard area outside of the floodway. The flood fringe is typically shallower and flows more slowly than in the floodway. Depending on when a flood study was conducted, the flood fringe can also include high hazard flood fringe, protected flood fringe, or overland flow (flood fringe) sub-zones.

High Hazard Flood Fringe – The high hazard flood fringe identifies areas within the flood fringe with deeper or faster moving water than the rest of the flood fringe.

Protected Flood Fringe – The protected flood fringe identifies areas that could be flooded if dedicated flood berms fail or do not work as designed during the 1:100 design flood. These areas are not expected to be flooded but reflect areas of residual risk. Protected areas can be different for floods smaller or larger than the design flood.

Design Flood – The minimum design flood standard in Alberta is the 1:100 flood, which is defined as a flood whose flow has a 1% chance of being equaled or exceeded in any year. The design flood can also reflect 1:100 ice jam flood levels if they are more severe than 1:100 open water flood levels or be based on a historical flood. For Drumheller, the design flood is 1850 m³/s.