

Red Deer - Red Deer River - Flood Hazard Study

Community City of Red Deer
Red Deer County

Stream Red Deer River

Basin Red Deer River - 5C

This study delineates flood hazard areas and determines design flood levels along an approximate 18 km reach of the Red Deer River through Red Deer. The design discharge for the Red Deer River is 1470 m³/s.

The headwaters of the Red Deer River are located in the Rocky Mountains. Flows in the study area have been regulated by Dickson Dam since 1983 and the selected design discharge reflects regulation. Flooding in the study area has historically occurred during both the open water and ice-affected seasons. However, flooding caused by ice jam activity has not been considered a major concern since the construction of the Dickson Dam. Open water flooding is the design case for this study and is typically caused either by intense summer rainstorm events or by a combination of spring rainfall and snowmelt runoff. High flows are most likely to occur in June and July.

A digital representation of the flood hazard maps prepared as part of this study can be viewed using the [Flood Hazard Map Application](#). For more information regarding specific flood hazards in your community, please contact Alberta Environment by email at aenv-flood.risk-maps@gov.ab.ca.

Flood Hazard Study Details

Study Status Final

Study Name Red Deer River at Red Deer Hydraulics Study

Study Author W-E-R Engineering Ltd., Calgary, Alberta

Study Date June 1991

Flood information available after study completion may not be reflected in the current study report or flood hazard mapping.

Provincial Designation Details

Designation Status Designated

Designation Date 11 October 1995

Related Information and Links

Related Studies [Red Deer - Waskasoo Creek](#)
[Red Deer \(County\) and Markerville - Red Deer, Little Red Deer and Medicine Rivers](#)