

Drumheller – Red Deer River, Michichi Creek and Rosebud River – Flood Hazard Study – Summary

Community	Town of Drumheller Kneehill County Starland County Wheatland County Special Area No. 2
Stream	Red Deer River Rosebud River Michichi Creek
Basin	Red Deer River – 5C

This study delineates flood hazard areas and determines design flood levels along the Red Deer River, Michichi Creek and the Rosebud River through the Drumheller and surrounding area. The study area includes about 36 km of the Red Deer River and almost 2 km lengths of Michichi Creek and the Rosebud River upstream of their confluences with the Red Deer River. The Red Deer River design discharge ranges from 2290 m³/s at the upstream study extent to 2560 m³/s at the downstream extent. The design discharges for Michichi Creek and the Rosebud River are 68.0 m³/s and 276 m³/s respectively.

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 dykes exist along the Red Deer River through Drumheller at several locations. The selected design discharges for the Red Deer River are based on naturalized data and do not reflect the effects of regulation. Floods on the Red Deer River within the study area generally occur between May and August and most commonly in June, as a result of intense rainfall in the foothills region of the basin, either alone or in combination with mountain snowmelt runoff. The Michichi Creek and Rosebud River watersheds are located in the eastern Alberta prairie. Flooding along both streams typically occurs in between late-March and early-April as a result of spring snowmelt runoff.

A digital representation of the flood hazard maps prepared as part of this study can be viewed online.

- [Drumheller Flood Hazard Mapping](#)

For more information regarding specific flood hazards in your community, please contact Alberta Environment and Parks by email at ESRD.Flood@gov.ab.ca.

Flood Hazard Study Details

Study Status	Final
Report Name	Drumheller Flood Risk Mapping Study
Report Author	Matrix Solutions Inc., Calgary, Alberta
Report Date	February 2007

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

To obtain a PDF copy of the current report or mapping in PDF format, please contact Alberta Environment and Parks by email at ESRD.Flood@gov.ab.ca.

Instructions on how to obtain official GIS flood hazard mapping data, or more information on the Flood Hazard Identification Program and flood hazard studies in Alberta, are available online.

- floodhazard.alberta.ca

Provincial Designation Details

Designation Status	Pending
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Related Information

Adjacent Studies	None
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