

Medicine Hat – South Saskatchewan River, Ross and Seven Persons Creeks – Flood Hazard Study – Summary

Community	City of Medicine Hat Cypress County
Stream	South Saskatchewan River Ross Creek Seven Persons Creek
Basin	South Saskatchewan River – 5A

This study delineates flood hazard areas and determines design flood levels along the South Saskatchewan River as well as Ross and Seven Persons Creeks through Medicine Hat. The study area includes an approximate 35 km reach of the South Saskatchewan River, an approximate 3 km reach of Ross Creek and an approximate 11 km reach of Seven Persons Creek. Ross Creek joins Seven Persons Creek less than 1 km upstream of its confluence with the South Saskatchewan River. The design discharge for the South Saskatchewan River is 5230 m³/s. The design discharge for Ross Creek is 152 m³/s. The design discharge for Seven Persons Creek is 121 m³/s upstream of the Ross Creek confluence and 273 m³/s downstream of the confluence.

The South Saskatchewan River is formed by the joining of the Bow and Oldman Rivers, and flows in both contributing systems have a long history of diversion regulation. Although the design discharge for the South Saskatchewan River is based on a mixed data set, it is considered to adequately reflect a naturalized flood flow. Ross Creek originates in the Cypress Hills and Seven Persons Creek originates south of Murray Lake. Although Seven Persons Creek flows have been regulated since 1955, its design discharge is based on unregulated data and does not reflect the effects of regulation. Flooding in the study area typically occurs during the open water season as a result of intense summer rainfall.

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

- [Medicine Hat 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	Medicine Hat Floodplain Study
Report Author	Alberta Environment, Water Resources Management Service, Technical Services Division, River Engineering Branch, Edmonton, Alberta
Report Date	May 1986
Revision Date	February 1991

The original study was prepared in May 1986. An addendum with updated flood hazard mapping was published in February 1991. The original report, addendum and updated mapping constitute the revised study.

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.

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- floodhazard.alberta.ca

Provincial Designation Details

Designation Status	Designated
Designation Date	12 February 1991

Related Information

Adjacent Studies	None
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