

Crowsnest Pass – Crowsnest River and Tributaries – Flood Hazard Study – Summary

Community	Municipality of Crowsnest Pass
Stream	Crowsnest River Allison Creek Star Creek McGillivray Creek Nez Perce Creek York Creek Blairmore Creek Lyons Creek Gold Creek Drum Creek
Basin	South Saskatchewan River – 5A

This study delineates flood hazard areas and determines design flood levels along the Crowsnest River and nine tributaries through Crowsnest Pass. The study area includes an approximate 29 km reach of Crowsnest River, from the outlet of Crowsnest Lake to just upstream of the Byron Creek confluence, and significantly shorter reaches of Allison, Star, McGillivray, Nez Perce, York, Blairmore, Lyons, Gold and Drum Creeks, totaling about 10 km. The design discharge for the Crowsnest River ranges from 25.1 m³/s at the upstream study extent to 143 m³/s at the downstream extent. The design discharges for the tributaries are 29.8 m³/s, 13.0 m³/s, 28.0 m³/s, 12.6 m³/s, 22.0 m³/s, 31.2 m³/s, 22.4 m³/s, 29.7 m³/s and 13.7 m³/s respectively.

The headwaters of the Crowsnest River are located in the Flathead and High Rock Ranges of the Rocky Mountains. In response to historic flood events beginning in 1923, the Crowsnest River was channelized between Blairmore and Coleman. Flooding along all streams in the study area generally occurs during the open water season, as a result of mountain snowmelt runoff combined with rainfall events. High flows are most likely to occur in May and June.

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

- [Crowsnest Pass 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	Flood Risk Mapping Study, Crowsnest River and Tributaries, From Outlet of Crowsnest Lake to Hillcrest Mines East Access Bridge
Report Author	AMEC Earth & Environmental, 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.

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- floodhazard.alberta.ca

Provincial Designation Details

Designation Status	Pending
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Related Information

Adjacent Studies	None
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