



Major Landslides Causing Fatalities

Landslides are the downslope movements of sediment and rock. They can be found in any part of Canada, even in areas with very little relief. They happen in bedrock or in loose sediment, on land or under water. They can be large or small, rapid or slow, and generally occur without warning. This map depicts 45 landslides in Canada that have resulted in more than 600 fatalities in historical times (1840 - 2006).

0 150 300 450 600 km

Lambert Conformal Conic Projection. Standard Parallels 49°N and 77°N

- | | | |
|--|--------------------------------------|--|
| Areas Vulnerable to Landslides | Populated Places | Roads |
| Area of glaciolacustrine clays and fine silt | • 0 - 999 | Expressway |
| Area of glaciomarine clays and fine silt | • 1 000 - 4 999 | Highway |
| Canadian Cordillera | • 5 000 - 24 999 | Regional or Local Road |
| Areas of Cretaceous bedrock on the Plains | • 25 000 - 99 999 | Winter Road |
| | • 100 000 - 499 999 | Ferry route |
| | • 500 000 or greater | |
| Major Landslides | Capital Cities | Boundaries |
| • 3 to 10 deaths | ★ National Capital: Ottawa (774 072) | International |
| • 10 to 50 deaths | ★ Provincial/Territorial Capitals | Provincial/Territorial |
| • More than 50 deaths | | EEZ (200 mile) |
| — Southern limit of extensive discontinuous permafrost (50%-90% of area) | | Canada / Kataaitit Nunat dividing line |

Source(s):
Areas Vulnerable to Landslides
Areas of glaciolacustrine and glaciomarine silts and clays are based on the map of Surficial Geology - Map 1880A. Areas of Cretaceous bedrock on the Plains are based on the Rock Era and Geological Provinces elements of the Geological Map of Canada - Map D1860A. The area of the Canadian Cordillera is taken from the Geological Map of Canada - Map D1860A. Geological Map of Canada - Map D1860A (CD-ROM), (1997) Ottawa, Ontario: Geological Survey of Canada, Natural Resources Canada.
Fulton, R.J. 1995. Surficial Materials of Canada, Geological Survey of Canada, Map 1880A.
Major Landslides 1840 - 2006
Forty-five landslides in Canada have resulted in over 600 fatalities in historic times (post-1840). This number is a minimum value, based on the definition of a landslide disaster as 3 or more deaths in a single event. Events with 1 to 2 fatalities are difficult to trace and have not been included in the database. In some of these disasters the death can be attributed to secondary effects (flood waves and tsunamis) triggered by the landslide. Geological Survey of Canada, Natural Resources Canada, 2006.

© 2009, Her Majesty the Queen in Right of Canada, Natural Resources Canada.

This product was originally published as an interactive map in the online Atlas of Canada, 6th Edition. It was not intended for high resolution reproduction and therefore does not conform to the standards of cartographic representation and map design found on the Atlas of Canada's paper reference maps.