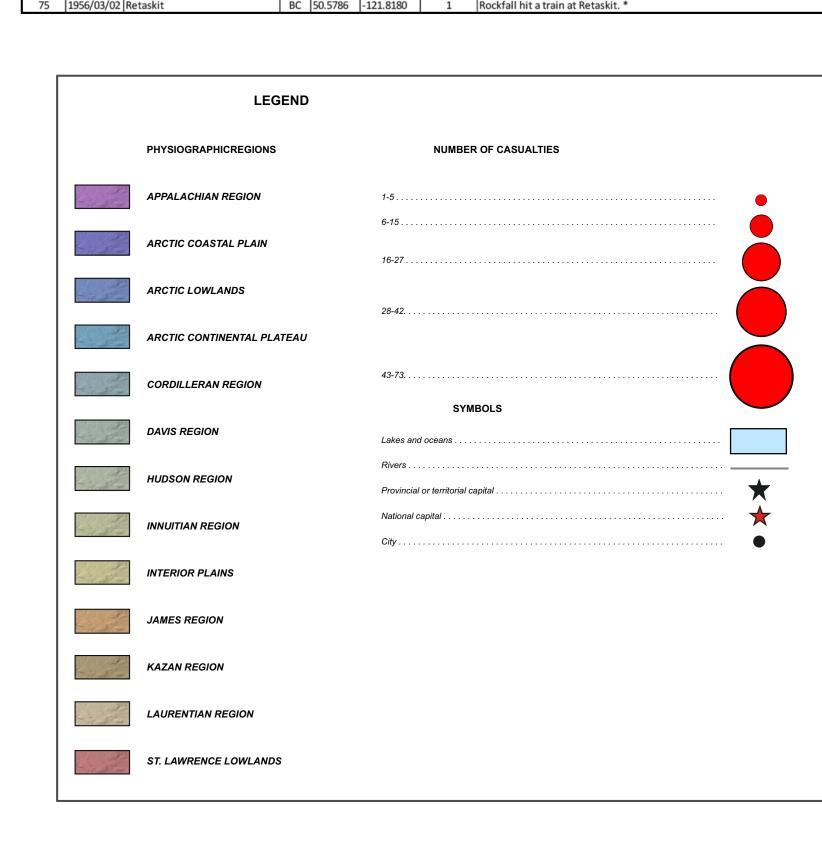
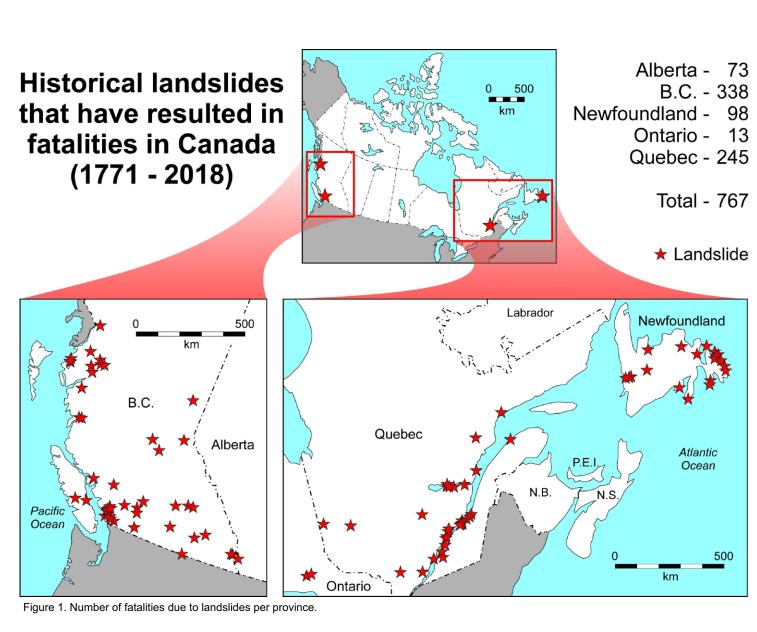


This map represents a compilation of historical landslide events that have caused fatalities across Canada (from 1771-2018), which is updated from the one published in 2015 (Blais-Stevens et al. 2015). Included with the map is a table listing the events chronologically with coordinates and a brief description. We have also included landslide events that have caused tsunamis that in turn, caused fatalities. The landslide information comes from technical reports, scientific and newspaper articles, as well as provincial government websites, or from requests to colleagues who shared their knowledge. Furthermore, it is a map based on a previously published one that listed landslide disasters (3 or more fatalities) in Canada from 1840-1998 (Evans, 1999). In updating, we included events that had fewer than three fatalities also. The newspaper article descriptions are often short and not technical, therefore, we were led to make interpretations on the type of landslide. In some cases, only a general area was documented for a specific landslide event, therefore coordinates are approximate and identified as such. Overall, we considered that what was important was the regional setting in which the event took place. The events were plotted within Canada's physiographic regions (Bostock, 2014) overlain on a hillshade image created from a digital elevation model. This open file has tried to summarize, in a joint effort, all known landslides in Canada that have resulted in fatalities. We also compiled the number of fatalities due to a landslide per province (Fig. 1). Undoubtedly some are missing. If the reader is aware of any such missing landslides, or errors or inaccuracies, please contact the Geological Survey of Canada.

EVENT#	DATE	LOCATION	PROV	LATITUDE	LONGITUDE	FATALITIES	COMMENTS
1	1771/09/29	St-Pierre-de-Montmagny	QC	46.9819	-70.5546	4	Flowslide swept away a house and a barn. *
2	1823	Ferryland	NL	47.0228	-52.8842	42	Rock fall.
3	1829/05/10	Rigaud	QC	45.4637	-74.3655	2	Flowslide swept away a house and its two occupants. *
4		Quebec City	QC	46.8064	-71.2047	32	Rockslide destroyed houses.
5	1846/10/17	-	QC	45.4637	-74.3655		Flowslide swept away a house and a barn. *
6		Grate's Cove	NL	48.1667	-52.9333	2	Rockfall from seacliff killed two brothers.
7	1852	Kellys Island	NL	47.5455	-53.0137	1	Rock fell from seacliff.
8		Quebec City	QC	46.8064	-71.2047	7	Rockslide destroyed houses.
9	1860	Cape Cove	NL	46.8278	-54.1958	7	Landslide killed seven fishermen in camp.
10		Quebec City	QC	46.8064	-71.2047	4	Rockslide destroyed houses.
11		Sainte-Geneviève-de-Batiscan	QC	46.5475	-72.3386	4	Flowslide by the Champlain River on Rang des Lahaie.
12 13		Sainte-Geneviève-de-Batiscan	QC BC	46.5416 49.2154	-72.3390 -122.6086	5 1	Flowslide in quick clay. Landslide into the Fraser River caused a 20 m wave.
14	1880/01/30	Quebec City	QC	46.8064	-71.2047	50	Rockslide destroyed houses.
15		St-Pierre-de-Montmagny	QC	46.9819	-71.2047	1	Flowslide swept away a house and its ten occupants. *
16		North Pacific Cannery	BC	54.1939	-130.2192	35	Debris flow caused by breach of lands in Prince Rupert.
17	1892/04/19		NL	49.0167	-58.1500	1	Landslide burried a house.
	1894/04/27		QC	46.7797	-72.0378	4	Quick clay flowslide destroyed a farmhouse.
		St-Luc-de-Vincennes	QC	46.5031	-72.3794	5	Quick clay flowslide destroyed a familiouse. Quick clay flowslide destroyed a home.
20		Sheep Creek, near Rossland	BC	49.0147	-117.8181	7	Debris flow struck railway maintenance camp.
21		Quesnel Forks	BC	52.6553	-121.7836	3	Debris flow damaged homes and a highway.
22	1898/05/07	4,	QC	46.7053	-72.1478	1	A large flowslide swept away two houses, a school and two barns.
23		St-Vallier	QC	46.8730	-70.8075	2	Two people and a mill were swept away by a lateral spread.
24		Cappahayden	NL	46.8608	-52.9466	1	Rockfall from cliff.
25	1903/04/29		AB	49.5950	-114.3844	73	Rock avalanche buried part of the coal mining town of Frank.
26		Pouch Cove	NL	47.7472	-52.7750	1	Rockfall.
27		Spences Bridge	BC	50.4144	-121.3508	15	Landslide into Thompson River caused displacement wave which swept vict
28		Knight Inlet	BC	50.8615	-125.5810	2	Debris flow in Knight Inlet killed two loggers. *
29		Notre-Dame-de-la-Salette	QC	45.7675	-75.5928	34	Landslide in quick clay into Lievre River.
30		Collingwood; Vancouver	BC	49.2409	-123.0383	1	Landslide killed an employee of BC Electric Company. *
31	1909/11/28		ВС	49.2436	-122.8669	22	Slump of railway embankment derailed a train.
32		St-Alphonse-de-Bagotville	QC	48.3308	-70.9425	4	Construction camp buried by landslide in quick clay.
33		Coucoucache	QC	47.7097	-73.2642	6	Slump of railway embankment derailed a train.
	1911	Cape Shore	NL	46.9336	-54.0431	1	Landslide.
35	1915/03/22	Jane Camp/Britannia Mine	ВС	49.6117	-123.1394	54	Rock avalanche swept into mining camp.
36	1916/11/01	West of Coquihalla	BC	49.5994	-121.0572	1	Rockslide smashed into a plow train, killing a crewmember. *
37	1917/12/03	lago train station	ВС	49.5168	-121.1521	1	Snow and rockslide struck a plow train killing one person.
38	1918/10/28	St-Pierre-de-Montmagny	QC	46.9312	-70.6185	2	Two people and a barn were swept away by a flowslide.
39	1921/10/28	Britannia Beach/Howe Sound	BC	49.6244	-123.2003	37	Outburst flood caused by failure of railway fill.
40		Elcho Harbour	BC	52.3933	-127.5342	5	Debris avalanche caused by heavy rains.
41	1924/10/02	Saguenay	QC	48.4351	-71.2442	1	A minor flowslide triggered by a factory's water drainage.
42	1927/01/01	Othello	BC	49.3793	-121.3643	1	Rockslide on the Kettle Valley Railway.
43		Anse Saint-Jean	QC	48.2312	-70.2066	1	Landslide swept away a victim.
44		Burin Peninsula	NL	46.8581	-55.7489	27	Tsunami caused by seismically (M7.2) triggered submarine landslide.
45		Between Brodie-Juliet stations	BC	49.7061	-121.0179	1	Rockslide on the Kettle Valley Railway killed an engineer. *
46	1930/06/26		ON	46.5933	-80.9511	8	Slump of railway embankment derailed train.
47	1930/06/27		ON	46.6289	-80.6672	4	Slump of railway embankment derailed train.
48	1931/05/04	-		54.4644	-128.7689	1	Rockslide hit a train east of Amsbury.
		East of New Hazelton		55.2530	-127.5665	1	Landslide caused a derailment killing the fireman. *
		North Bend		49.8828	-121.4511	1	Snow and debris avalanche killed a railway worker. *
	1935/01/24			51.2979	-116.8655		A slide killed a CPR foreman. *Estimated location
	1935/01/24		BC	49.0716	-122.1677	1	Landslide at Kilgard on main road to Chilliwack . *
	1935/01/25		BC	49.0654	-122.1941	4	Mudslide at Clayburn Brick Company's plant. *
54		Portugal Cove	NL	47.6250	-52.8333		Rockfall.
55		South Side Road, St-John's	NL	47.5667	-52.7333	1	Landslide due to heavy rainfall.
56 57		Near Coalmont	BC	49.5026	-120.6827	1	Rockfall in Granite Canyon killed one miner. *
57		St-Grégoire-de-Montmorency	QC	46.8808	-71.1528	4	Landslide caused by heavy rains.
58	1939/01/24		BC	49.3562	-120.0747	2	Rockfall damaged nine houses and killed two people.*
59 60		48 km east of Hope Near Invermere	BC BC	49.5826	-121.0829	1	Rockfall killed a man on the Kettle Valley Railway. *
61		Humbermouth	NL	50.5100 48.9639	-115.9958 -57.9056	1	Landslide killed a man during road construction. * Landslide.
62		West of Kamloops	BC	50.5585	-121.2940	1	Large rockfall hit a CNR train killing the fireman. *
63		Mapleguard Spit	BC	49.4662	-121.2940	1	M7.3 earthquake generated a shoreline failure causing a tsunami.
64		Beattie Gold Mine	QC	48.5056	-79.2553	4	Landslide debris flowed into mine.
	1946/07/19		BC	50.7824	-121.0628		A CNR freight train struck a slide in Thompson gorge. *
66		South Side Road, St-John's	NL	47.5667	-52.7333	1	Landslide.
67	1948/09/15		NL	47.3251	-52.7866	2	Landslide killed two brothers.
68		American Bar reserve	BC	49.4292	-121.4374	1	Debris flow killed a woman at American Bar reserve. *
69	1950/02/27		NL	48.9916	-58.0484		Rockfall.
70		Rothermere Mine	NL	48.8224	-56.8629	1	Rockfall.
71	1953/03/27		NL	48.7833	-56.8629	1	Landslide burried a boy and injured another.
72	1953/10/23		BC	54.8814	-128.4347	1	Rock slide.
		Terrace-Kitimat	BC	54.2834	-128.5183	2	Debris slide on the rail line.*
72	TO/ TO				-72.6200		Flowslide in guick clay.
73 74	1955/11/12	Nicolet	QC	46.2256	I=/Z D/III		Flowslige in duick clav-





EVENT#	DATE	LOCATION			LONGITUDE		COMMENTS
		Woodbury Bluffs, near Kaslo	BC	49.8060	-116.9028	1	Rockfall killed a railway employee south of Kaslo. *
		Sunset Beach	ВС	49.4157	-123.2344	1	Rock slide north of Horseshoe Bay.
78	1957/04/07	West of Nelson	ВС	49.4712	-117.4709	2	Debris flow killed two occupants of a car. *
79	1957/11/22	Prince Rupert	ВС	54.3036	-130.3006	7	Debris avalanche caused by heavy rains.
80	1958/10/26	Messiter	ВС	51.9287	-119.3448	3	Rockslide on CNR killed three workmen.*
81	1958/11/20		ВС	49.9437	-121.4715	1	Large rockslide derailed CNR freight train. *
	1959/03/21		BC	54.7820	-127.9732		Landslide hit train west of Smithers.
	1959/03/27			51.0064	-118.2000		Landslide triggered by highway construction.
		Cassiar Cannery		54.1970	-130.2318		Rockslide north of Stewart.
	1960/01/07	-	_				Landslide killed a worker at Arrow Lake near Forstall beach. *
			BC	50.3475	-117.8850		
		West of Ashfort	BC	50.6840	-121.2963		A rockslide hit the CNR train west of Ashcroft.*
	1960/09/07			53.4383	-120.5011		Debris flow killed highway construction workers.
		Near Gold River	BC	49.7995	-126.0680		A mud and rock slide hit the Taisho Logging Co. bridge, killing a logge
	1961/02/20		BC	49.1898	-122.2339		Debris avalanche on Dewdney Mountain killed a farmer. *
90	1962/03/20	Granite Creek	BC	49.4861	-120.7158		Rock slide killed two people. *
91	1962/05/23	Toulnustouc River	QC	49.8172	-68.3742	9	Landslide in marine clay caused by blasting.
92	1962/08/16	Harrison Lake camp	ВС	49.4663	-121.7636		Giant mud slide killed a worker. *
93		Near Alert Bay on Seymour Inlet	BC	51.0248	-127.3285		Mud and rockslide hit Wright's logging camp. *
94		Britannia Beach	BC	49.5858	-123.2200		Rock slide derailed train.
		Saint-Joachim-de-Tourelle	QC	49.1547	-66.4153		Flowslide in quick clay.
96		Crescent Beach	BC	49.0663	-122.8480		Bank collapse along Nicomekl River at Crescent Beach.*
97		Ramsay Arm	BC	50.4189	-124.9506		Debris flow caused by heavy rains.
98	1965/01/09		BC	49.3039	-121.2508	_	Massive rock avalanche.
	1965/01/14		BC	52.3539	-127.6844		Debris flow caused by melting snow.
		Fountain Indian Reserve	BC	50.7523	-121.8929		Rock slide at the Fountain Indian Reserve near Lillooet *
101	1968/01/14	Popkum	BC	49.1932	-121.7314	1	Debris flow destroyed a house at Cattermole Timber Co. *
102	1968/06/05	Camp Creek/Revelstoke	BC	50.9703	-118.5169	4	Debris flow caused by heavy rains.
103	1968/08/26	Victor Lake	BC	50.9567	-118.3962	1	Rockfall killed passenger on CPR train. *
104	1968/11/24	Natal	ВС	49.7181	-114.8336	3	Massive slide of overburden of a mining operation.
	1969/02/09		ВС	49.5600	-123.2178		Rockfall on Highway 99.
		Charles Creek	BC	49.4206	-123.2326		Debris flow destroyed a bridge and car.
		Summerland	BC	49.6001	-119.6548		Silt fall
		Boothroyd near Boston Bar	BC	49.9604	-121.4946		Rock and mudslide near Boston Bar derailed a CNR train. *
		Saint-Jean-Vianney			-71.2175		
			QC	48.4733			Flowslide in quick clay.
		North of Lytton	BC	50.3439	-121.6510		Two people were killed by a landslide. *
111	1972/03/20	Michel Creek Road, Sparwood	BC	49.6864	-114.7844	3	Debris flow from coal mine waste dump.
		Harbour Breton	NL	47.4783	-55.8117	4	Debris avalanche struck houses.
	_	Spences Bridge	BC	50.4065	-121.3723	2	Rockfall derailed a CPR train. *
114	1974/09/14	Cypress Bowl	BC	49.3935	-123.1977	1	Rockslide killed one man during home construction. *
115	1974/11/02	Yamaska	QC	46.0105	-72.9138	1	A lateral spread swept away an onlooker.
116	1975/07/22	Devastation Glacier	ВС	50.5650	-123.5508	4	Massive rock avalanche.
117	1978/05/03	Rigaud	QC	45.4637	-74.3655	1	Lateral spread triggered by pile-driving activities.
		Carolin Mines camp	BC	49.5044	-121.2859		Debris flow at Carolin Mines camp. *
		Belmoral Mine	QC	48.1358	-77.6506		Cave-in of mine roof triggered a flow of lacustrine sediments into mi
		Beaver Valley	BC	54.9975	-129.3483		Debris avalanche caused by the vibrations of a tractor.
		Tumbler Ridge	BC	55.1277	-120.9953		Landslide near the Tumbler Ridge coal site.
							*
	1981/10/28		BC	49.4794	-123.2508		Debris flow destroyed bridge.
		Brunswick Point	BC	49.5261	-123.2600		Single boulder landing on car.
		Alberta Creek	BC	49.4605	-123.2325		Debris flow due to rain flood;
	1983/11/23		BC	50.7751	-119.2724		A large boulder detached from a cliff and destroyed a house.
126	1984/04/28	Springdale	NL	49.5000	-56.0667	1	Rockfall killed youth climbing on slope face.
	1989/11/10		ВС	56.1186	-129.7344		Rockfall on highway 37A.
	1990/06/12		BC	49.8936	-119.1431		Debris avalanche caused by heavy rains.
		Dorothy Creek	BC	49.3583	-125.4000		Debris slide associated with forestry activities
		Porteau Cove	BC	49.5507	-123.2350		Rockfall on Highway 99.
	1993/11/19		BC	53.4753	-123.2330		Debris flow on eastern shore of Alan Reach.
		Longue-Rive	QC	48.5855	-69.2030		A landslide buried a victim.
	1996/07/21		QC	48.3085	-70.8535		Landslide caused by heavy rains.
	1997/03/26			50.1167	-121.5667		Highway and railway fill failures.
		West Quesnel	BC	52.9725	-122.5128		Shifting soil snapped a gas line and caused an explosion.
136	1997/05/31	Gowan Creek	BC	49.9663	-122.3813	1	Debris flow caused by heavy rains.
		North Vancouver	ВС	49.3292	-123.0032		Landslide after heavy rains.
		Legate Creek	ВС	54.7494	-128.2556		Debris flow burried a truck on Highway 16.
		Van Tuyl Creek	BC	49.8287	-117.4367		Debris flow during snowmelt following wildfire.
	2010/05/10		QC	45.8041	-72.9638		Flowslide in quick clay.
140		Random Island	NL	48.1445	-53.7158		Landslide due to flooding and rainfall.
141		Johnsons Landing	BC	50.0869	-116.8703		Landslide following heavy rains.
141 142		II 'Eninhanie	QC	45.8412	-73.4914	2	Two truck drivers buried by landslide in a quarry.
141 142 143	2013/01/29			49.2658	-119.5763	1	Debris fall.
141 142 143 144	2013/01/29 2014/09/22	Wreck Beach	BC			1	
141 142 143 144 145	2013/01/29 2014/09/22 2014/11/07	Wreck Beach Sept-Iles	QC	50.3418	-66.1963	1	Landslide derailed a train north of Sept-Iles.
141 142 143 144 145	2013/01/29 2014/09/22	Wreck Beach Sept-Iles	_		-66.1963 -123.1981		Rock slide likely due to heavy rains.
141 142 143 144 145 146	2013/01/29 2014/09/22 2014/11/07 2014/12/22	Wreck Beach Sept-Iles Lions Bay	QC	50.3418		1	· · · · · · · · · · · · · · · · · · ·
141 142 143 144 145 146 147	2013/01/29 2014/09/22 2014/11/07 2014/12/22 2015/11/17	Wreck Beach Sept-Iles Lions Bay Emery Creek north of Hope	QC BC BC	50.3418 49.4480 49.4934	-123.1981 -121.4771	1	Rock slide likely due to heavy rains.
141 142 143 144 145 146 147	2013/01/29 2014/09/22 2014/11/07 2014/12/22	Wreck Beach Sept-Iles Lions Bay Emery Creek north of Hope Tappen	QC BC	50.3418 49.4480	-123.1981	1 1 1	Rock slide likely due to heavy rains. Debris flow from old logging road killed truck driver.

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