



Montreal





# The Different Landforms

- St. Lawrence Lowlands
- The Canadian Shield
- The Appalachian Highlands

# 1. Why Do They Exist?

## The Appalachian Highlands

The Appalachian Highlands exist due to erosion and movements from tectonic plates. The highlands include elevations of less than 4,000 feet. The elevation is then divided into two parts in Quebec, the Shickshock mountains and the Notre Dame Mountains.

## Canadian Shield

The Canadian Shield exists because of the structure of landscape. For example, Boreal forest covers the southern and cultural parts of the rocky landscape as hundreds of rivers and thousands of lakes goes through the Canadian Shield. The Canadian Shield mainly consist of a flat plateau and it includes two main mountains that range near the Laurentians River.

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Saint Lawrence Lowlands were created 500 million years ago. There was an ice age and when it ended and all the glaciers started melting, the name of this was called glaciation. One of the glaciers was called the Laurentide and it covered the Saint Lawrence Lowlands. This type of ice sheet could move and make valleys in the land. The valley it made is now called Saint Lawrence Lowlands.





# Economic Industries

- The largest inland port in the world is the Port of Montreal. It handles 26 million tons of goods and items yearly. Such as grain, sugar, gas products, machinery, and consumer goods. Montreal is the railway center of Canada and is a very important rail city. It is in the headquarters of the Canadian National Railway and used to be headquarters of the Canadian Pacific Railway up to 1995.
- Video Gaming has rapidly gained lots of fame since 1997 and has continued to be a well-known interest among all people. Montreal has attracted world leading game developers and publishers studios including Ubisoft, EA, Edios Interactive, Artificial Mind and Movement, Bioware, and Strategy First. The provincial government subsidizes video game jobs which makes it highly appealing to all these companies. Every year this industry makes billions of dollars and provides thousands of jobs in the Montreal area.





## 2 Climate Characteristics

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Two types of climate characteristics in Montreal are extremely cold winters and mild summers. The winter ranges from mid-November to mid-March with an average temperature of  $-10$  degrees Celsius. Summers range from June to August and include a low temperature of  $20/22$  degrees Celsius and highs of  $32/33$  Celsius.

## 2 Where they came from

Montreal experiences extremely cold winters because it is affected by lots of continental air masses sweeping down from the Northwest. Montreal is located halfway between the North Pole and the Equator, so chilly winters are expected. The hot summers come from the Gulf of Mexico which produces humid hot air upwards towards Montreal which creates heat waves during the summer months.



## 2 Activities around town

One of the most popular winter carnivals celebrated in Montreal is The Carnival De Quebec. This Carnival was meant to make use of the cold winter that came around yearly. It is held every year in Quebec City, It has all kinds of fun activities to do in the winter time. Some of the activities you can attend are the night parade, Canoe races on St. Lawrence River, Snow Sculpting and a visit to the Ice Palace with the Bonhomme, which is the mascot. When the official Carnival De Quebec came out in 1955, it sparked lots of attention and attracted many tourists. The Carnival was also meant to promote the economic development of the region.

Due to the hot summer months in Montreal the Completement Cirque is a festival that performs on the streets giving people something different and exciting to see. Their performances include contortionists, juggling, clowning, acrobats, singing and dancing. It is open for everyone to attend. It brings in a lot of revenue and tourists.





# 3. Vegetation

- Sugar Maple trees
- Eastern White Pine trees





# 3 why they live in this area

Sugar Maple trees grow in the forest region and they are a common species in the Great Lakes of St. Lawrence forest regions. These trees like to grow in shady areas and are very picky with their soil conditions. They like deep, moist soil and well drained with medium to fine textures. Sugar Maples grow well on flat areas and slopes. Due to the cold winters and humid summers Montreal has the perfect climate for sugar maple trees to grow.

Eastern White pine trees grow south of the eastern Boreal Forest. They also grow on ranges of slopes and prefer moist soil but can survive on drier areas as well. They can tolerate everything from dry to rocky ridges and muddy ground. These trees can survive in the humid summer and the cold winters months that Montreal has.





# Montreal's Vegetation Events

Montreal's yearly Apple Festival, is in September. Their tradition is to go to the local farms and hand pick fresh apples with family and friends. The farmers grow many different kinds of apples. They make pies, cupcakes and many other baked goods using the different apples for each dessert.

Le Grande Degustation de Montreal is a wine tasting event and the largest grape and wine gathering in eastern Canada. There are over 200 producers, distillers and brewers who get together and show their passion for dry wine with the public and professionals. This event invites Quebecers to meet their producers who come from all over the world and offers a once in a life time tasting experience.



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# What's the Word Around Town





# Environmental Issue

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The St. Lawrence River was an area of concern because the results of a review done showed that the water quality and environmental health were decreasing severely. This was due to the Cornwall urban center having a very large industrial activity that spanned over 100 years and the contamination in the local waters from upstream sources. Contamination is a polluting and poisonous substance put in the water. This issue affected other local waters and aquatic environments. Contaminants also travelled to Lake Ontario.

# Solution Actions

The federal and provincial regulators stepped in and made new laws, which led to process changes and upgrades to the local wastewater treatment at pulp and paper mills. As a result, this improved the water quality in the area.

Industrial wastewater treatment is no longer allowed along the Cornwall waterfront and no heavy metals in the Cornwall area.

The Government of Canada, the Province of Ontario and the city of Cornwall provided funding to upgrade Cornwall's wastewater treatment plant.

Cornwall's Waterfront area





# Technology Laboratory

I think 50 years from now technology will be very powerful and key to solving most problems. My theory would be that there will be a building with high tech machinery specially made for all rivers. It will be the headquarters for all information on rivers, around Canada. Every river will have a thin expandable pipe to transfer the water from the river to the lab. The pipe will also have plastic windows, 4 inches apart from each other, on both sides and the whole length of the pipe. Inside will be extreme electronic suction tubes that will come out and vacuum up the garbage or bacteria in the water and take it to the lab.

There will be a waterproof thin piece of technology, it will be as small as a pebble. This will lay on the river securely placed. It will scan the water as it passes and calculate the water levels, temperature, speed it travels and the density. Every river will have one of these and it will have wireless connection to the lab. If there's harmful bacteria or garbage in the water, it will notify the lab.

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