

MINERALS.—In Hastings county, *gold* has been discovered; but the ore is not easily worked, owing to substances combined with the gold being difficult of separation. *Corundum*, a very hard mineral, next to the diamond in hardness, used in polishing and grinding of steel implements, cutlery, etc., has been found.

The counties of Lambton and Kent in the western peninsula produce *petroleum*. Wells are sunk to a depth of about 400 feet and the crude petroleum is pumped to the surface. This crude oil is then *refined* or made pure enough to use. Gas, naphtha, benzine, paraffin, and lubricating oils are also obtained by certain processes from the crude petroleum. Most of the oil refineries are situated at *Petrolia* in the county of Lambton.

Nearly all the *salt* used in Canada is obtained from the western part of Ontario, in the counties of Bruce, Huron, Lambton, Essex, and Kent. Like the petroleum this is obtained from wells bored to a depth of about 1000 feet. The brine is pumped to the surface and is evaporated. The resulting salt is very pure.

Natural gas has been discovered in a number of localities in Ontario but chiefly associated with petroleum. In the towns of *Leamington* and *Kingsville* in Essex, it is used for lighting and heating purposes, and large supplies are piped to the cities of Windsor and Detroit. From *Welland* it is piped into the city of Buffalo. In what country are Detroit and Buffalo?

Bricks, tiles and other products of clay are manufactured in large quantities in Ontario, especially in the neighborhood of Toronto.

Valuable building stone of various kinds is found in Ontario—granite, marble and sandstone in the northern and eastern parts; limestone and sandstone along the Niagara escarpment.

A large amount of *mica* is quarried in Eastern Ontario. This is very much used for stove windows and for the insulation of electrical machinery.

Mineral fertilizers exist in Ontario as *gypsum* and *phosphate of lime* or *apatite*. The Ottawa valley abounds in phosphates which are sent in considerable quantities to Great Britain. Gypsum is found over a large area in the counties of Brant and

Haldimand, where mines have been worked for half a century. The manufacture of fertilizers from these and other materials is carried on to some extent.

MANUFACTURES.—The chief manufacture of Ontario is connected with agriculture—*cheese* and *butter*. Ontario exports more cheese than the whole of the United States and it is decidedly superior in quality. Cheese in Ontario is made in factories on the *co-operative* system, that is, the farmers who supply the milk to the factory practically own it. Butter is not exported in such large quantities as cheese. More of this is made on the farm, but creameries are being established for butter-making in some parts of the Dominion. Improved cold storage arrangements for shipment will probably cause a large increase in the production of butter in Ontario.

Flour is manufactured in many towns and cities of Ontario, more especially in the western peninsula.

The farmers of Southern Ontario feed many hogs. These are sent alive to market where they are bought for packing factories. *Pork packing* is carried on chiefly at *Toronto*, *St. Thomas*, *Ingersoll*, and *Collingwood*. Find these places on the map.

The manufacture of wood into *doors*, *window frames*, etc., is carried on extensively in Ontario, and large quantities are

exported. *Furniture* also is manufactured extensively in Ontario and exported to Great Britain and the United States. *Agricultural implements* are also made in Ontario in large quantities at *Toronto*, *Brantford*, *Woodstock*, *London*, etc., and exported to other countries, especially to Australia.

The manufacture of *cloth*, *boots* and *shoes*, *cars* and *engines*, and *leather* is carried on to some extent in various parts of the province.

ORAL AND WRITTEN EXERCISES.

Name the chief grains used by man as food? Which of these grow well in all parts of Southern Ontario? What is the chief industry of Southern Ontario? Where do peaches grow most abundantly? Where do grapes? Where are apples grown in large quantities? Where are petroleum and salt found? In what counties is natural gas found? Where is mica found and for what used? Name the two chief manufactures of Southern Ontario. In what places is pork-packing carried on?



Oil Well and Derrick.