" sea margins,) into successive terraces, some of which "are from 200 to 300 feet above the level of the ri "ver, and the whole bave a general parallellism "with it. These terraces are occupied by extensive "beds of clay and sand." The economic materials of this district, traversed by the St. Maurice and other large rivers, appear to be those of bog iron ore, of which the largest fields appear in the country between St. Maurice and Batyscan; and in the same localities, especially in the St. Nicholas range of Pointe du Lac, iron ochre is extensively 'ound, occupying, it is said, an area of about 400 acres, with a depth ranging from four to six feet, and affording eight varieties in colour. Iron sand, wad, and bog manganese are also found, and clay for pottery, bricks, and roofing tiles, to an extent which enables them to be manufactured in almost any locality where wanted ; and the white sundstone, although harder than most building stone, posses es, a- Mr. Logan remarks, the valuable projecty of resisting fire. This, with limestone and the yellow calcarcous stone, called the "Deschambaul's one," and the millstones over the Potsdam beds, fit for flagging. are in beds from one to two feet thick. Maible of various colours, and susceptible of the highest polish, is found, and peat has been turned by the habstants to exc-llent account; when burned and combined with the surface beneath, it becomes a very fruitful soil.

The conflagrations which have destroyed so large a portion of the two principal cities in Canada have na ural y called public attent on to the rooting of the houses, and several slate quarries in the Town ships of Kingsey and Elzear are now in operation. Their specific gravity and chemical composition are said to resemble the finest Welsh slate. In the Eastern Townships of Lower Canada clay states have been extensively discovered.

Sir Charles Lyell and Mr. Logan have declared and it is feared with too much truth—that from the geological structure of Canada coal cannot exist.

If Canada, however, has not coal she is conveniently situated to it: on the north-west are the immense coal fields of the Michigan Territory, and on the south east is the still great coal field of Appalachia, the one with a supposed su face of 12 000, and the other of 60,000 square miles, and said to be the largest known carboniferous tracts in the world.

But little copper has been found in Lower Cana'a. On the River L'Assomption and other places where it has been discovered the lode is said to be of trifling value.

Mr Logan has devoted much attention to the dis covery and distribution of gold. The auriferous tract is clearly shown to exist over 10,000 square miles on the south side of the St Lawrence, especially in the Eastern Townships, in the valley of the St. Francis, from Richmond to Salmon River, and on the Magog River above Sherbrooke; but he remarks "that the depoit will not, in general remun "erate unskilled labour, and that agricultuists, "artisans, and others engaged in the ordinary occu-"pations of the country, would only lose their la "bour by turning gold hunters."

The report of Mr. Logan on the Upper Province is accompanied by one by Mr. Murray, the Assistant Geologist, who especially refers to the district be tween Kingston and the River Severn, counceting Lake Simcoe with the Georgian Bay. The economic material met with in this district are *magnetic* and specular iron ore, which exists chiefly in the Township of Bedford in the County of Frontenac,

Madoc and Marmora in Hastings. Belmont in Victoria, and Seymour in North-mberland; and of these Mr Murray thinks the deposits in Madoc, Marmora and Belmont will become of great commercial importance. The Marm ramines are now worked by an English Company with the generation of the vary modern improvement in machinery. They are situated on a rocky flat, and the iron ore is said to be rich in the extreme, yielding sometimes ninety per cent. It is found chiefly on the surface or in its immediate vicinity. The Company owning them also possess extensive beds of marble and lithographio stone. In the same district are found galema and plumbago; and the Potsdam formation yields g indstones and flagging stones; clay producing the red and white brick is also abundant.

The copper on Lakes Superior and Huron is becoming an important article of national wealth, and is found occasionally in masses of 2000 pounds weight in a pure and malleable state.

Canada abounds in mineral springs, and the Caxton Plantagenet, St Leon and S. Catherines waters have acquired great celebrity

The soil of Canada is generally extremely fertile, and consist principally of yellow loam on a substratum of limestone It greatly improves to the westward, and its quality, when uncul vated, is easily ascertained by the truber it p oduces, the larger and heavier kinds proxing on the best soil. In Upper Canada the brown clay and loam, intermingled with marl, predominates in the district beween the St Lawrence, and the Ottawa; but further west, and north of Lakes Outario and Erie, the soil becomes more cayey and far more productive The virgin soil is rich beyond me sure, and the deposit of vegetable matter for ages in proved by the ashes of the fires which sometimes sweep the forest, render it abundantly productive for several years without extraneous help.

WHEAT.

The following is from J. Payne Lowe's forthcoming book on Wheat.-[ED.

METEOROLOGICAL INFLUENCES.—It is a well established fact that in England wheat cannot be cultivated at a height of 1000 feet above the sea, while in the south of France it may be grown at an elevation of 1500 feet. This, of course, is due to utfference of temperature.

It is also well understood that the hygrometric c.ndition of the atmosphere influences the composition of wheat; for in moist climates, such as the tof Iteland, it will contain a larger per centage of water.

Now, for the reason that a great amount of fertilizing material is received from the atmosphere during a rainy season, the necessity of proper mechancal and chemical condition of the soil becomes still more apparent, for thus the effects of the rain will ma crially be governed. If proper under-drains exist in soils that need them, all excess of moisture will poss away, thus permitting the free circulation of air to exercise its beneficial efforts both in increasing the fertility of the soil, and enabling the wheat plant to withstand the various diseases to which it is liable.

As already stated, the per centage of gluten is in variably greater in warm climates.