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THE COMPASS POINTS IN DIFFERENT DIRECTIONS

Other Interesting Facts About The Compass and Canada's Magnetic Survey

There will be general interest in the following article recently coming from the Topographical Survey Department at Ottawa. The article has so many little-known facts and so many novel ideas that it will be of particular concern to the average man. In this new country, where the compass has naturally been much used, there will be special significance attached to the article. The article, sent out from the office of the Topographical Survey, is as follows:—

The invention of the compass is lost in the dawn of history. It is first found mentioned in a quaint Chinese legend which relates that the Emperor Ho-ang-ti in 2634 B. C. led forth his army and attacked the rebel Kiang on the plains of Tehou-lou. But Kiang, getting the worst of the conflict, called the wizards, magicians and sorcerers to his aid who raised a great fog to hide Kiang and his army. Then the Emperor, not to be outdone, in his turn used the greater magic of the compass, which led his army through the great fog so that he was able to overcome Kiang and capture him.

The compass appears to have been brought to Europe in the twelfth century, most probably by the Arabians, as it is known that the Arabian and Chinese traders met in the Persian gulf; and on account of its very great practical value as a guide in all weathers, it rapidly came into general use and enabled Christopher Columbus to sail straight west from Spain, by day and by night, through fair and stormy weather, to the discovery of the New World.

But contrary to story book report, the compass does not point north but more or less to the east or west at different places. Scientists state that this is because the magnetic poles of the earth are not situated at the geographical poles as shown on our maps of the world; that in fact the north magnetic pole is near Boothia Felix on the Arctic coast of Canada, and the south magnetic pole in South Victoria Land south from New Zealand.

It might be thought that the compass would be satisfied to call it a day's work after pointing in a different direction at each place, but such is not the case for it is all the time changing its direction and never stays put. It marches to the west for many years, then turns back and marches to the east, then reverses again and marches to the west, and in fact changes its mind more often than any maiden fair, and carries on in a different way in each place. Whether this fickleness is caused by a wandering of the earth's magnetic poles, or by something happening inside the earth, or by the sun or planets, scientists have not yet been able to find out.

It is very important to know this march of the compass, especially in Eastern Canada, because all the old land surveys in Ontario, Quebec, New Brunswick, Nova Scotia and Prince Edward Island were made by compass and on-a-days when it is desired to retrace one of the old lost boundary lines it is necessary to know beforehand what the march of the compass has been since the time when the old survey was made.

In order that the compass may be used with reliance, therefore, the different countries of the world carry out magnetic surveys to measure its direction, and picture the information on magnetic charts for compass users.

Compass information is particularly valuable in such a large new country as Canada, and it is interesting to note that Champlain measured its direction at Halifax about 1604, John Davis in Davis Strait 1585 and Capt. Baffin in Baffin Land 1616, Capt. Middleton at Churchill and York Factory 1725; while Capt. Cook in 1778 and Capt. Vancouver in 1792 measured it along the Pacific coast. Later Sir John Franklin 1819-26 and Sir John Lefroy 1843-46 made some measurements, but comparatively little was done in Canada before 1880.

Since 1880, however, the Topographical Survey, Department of the Interior, has carried on a most extensive magnetic survey in this country in conjunction with its other work, at practically no expense, because the compass direction can be measured in a few minutes when the survey parties are already on the ground; until it now possesses more than 20,000 measurements, and regularly publishes magnetic maps which picture all this information for compass users.

In spite of the fact that the compass has been known for so long, it is today more widely employed than ever before. It is the sure-fire path-finder, the cloud by day and the pillar by night to the sailor afloat on the heaving main; the airman above the hiding clouds; the miner far underground in the deepest shaft; and explorers, surveyors, hunters, trappers, prospectors, pioneers and travellers in the jumbled mountains, the virgin wilderness and the Far North.

But the compass still has hidden secrets. Elusive earth currents and stubborn static still act the part

DOES NOT THINK 80-ACRE FARM HERE LARGE ENOUGH

Last week The New Liskeard speaker makes reference to the recent pronouncement of the Minister of Lands & Forests for Ontario that an 80-acre farm is large enough for the average settler. The Speaker says:—

"Under the heading '80 Acre Limit for Settlers,' which may be found in another column, it will be seen that the Minister of Lands and Mines thinks an eighty acre farm is all that a settler should have in the Clay Belt. We gave this information two weeks ago through our Englehart news.

"Having been in close touch with farming in the Clay Belt for thirty years, and having a fair knowledge of the conditions existing here, we offer it as our opinion that the change in the regulations will retard settlement. In Old Ontario, the average farmstead consists of one hundred acres. To tell a prospective immigrant that in this Northland he may not hold more than eighty acres would discourage him from coming here. Besides, a 160-acre form is not too large for a man who wants to follow mixed farming, and more particularly the man who wants to go largely into dairying.

"Probably the reason the Minister has made the change is because many settlers have not cleared their land as quickly as it was expected they would and hence much valuable land in the best settlements is still held, but not improved. This certainly is wrong, but the change would bring about a greater wrong.

"However, what we want is that our readers residing in Temiskaming would give us their views on this

CIRCULAR LETTER TO BROADCAST LISTENERS

The Radio Branch of the Department of Marine and Fisheries has sent out a circular letter to all holding radio receiving licenses in regard to interference from regenerative receiving sets. A recent departmental survey of radio broadcast reception conditions in the most populated centres of the Dominion indicates 50 per cent. of the "preventable interference" which prevails is caused through the incorrect operation of regenerative receiving sets by the broadcast listeners themselves. The survey further indicates that most of this interference is due to a lack of knowledge of correct methods of adjusting a regenerative receiving set, and it is accordingly hoped that a material reduction in the same may be effected if the broadcast listeners can be persuaded to co-operate in an endeavour to clear the air of regenerative whistles. To this end the circular letter gives special instructions for operating the class of receiving sets referred to. Anyone and everyone interested should write to the Radio Branch, Department of Marine and Fisheries, Ottawa, Ont., for copies of this circulars.

change in the land settlement laws. We shall publish the views of our readers whether or not they see this matter as we do. And to make our position clear, we favor the former system, viz.: that every bona-fide settler should be allowed to purchase for his homestead one hundred and sixty acres.

of highway men and hold up our friends the telegraph and wireless and radio. We know these highway men are in nature of first cousins to the dancing northern lights and magnetic storms that torture the compass, and black cyclonic sunspots that try to rob us of our light and heat, but all those things are still seen through a glass, darkly, and scientists believe they never probably can be forced to take the stand and lay bare their inmost secrets until the direction of pointing of the compass has been properly mapped all over the world.



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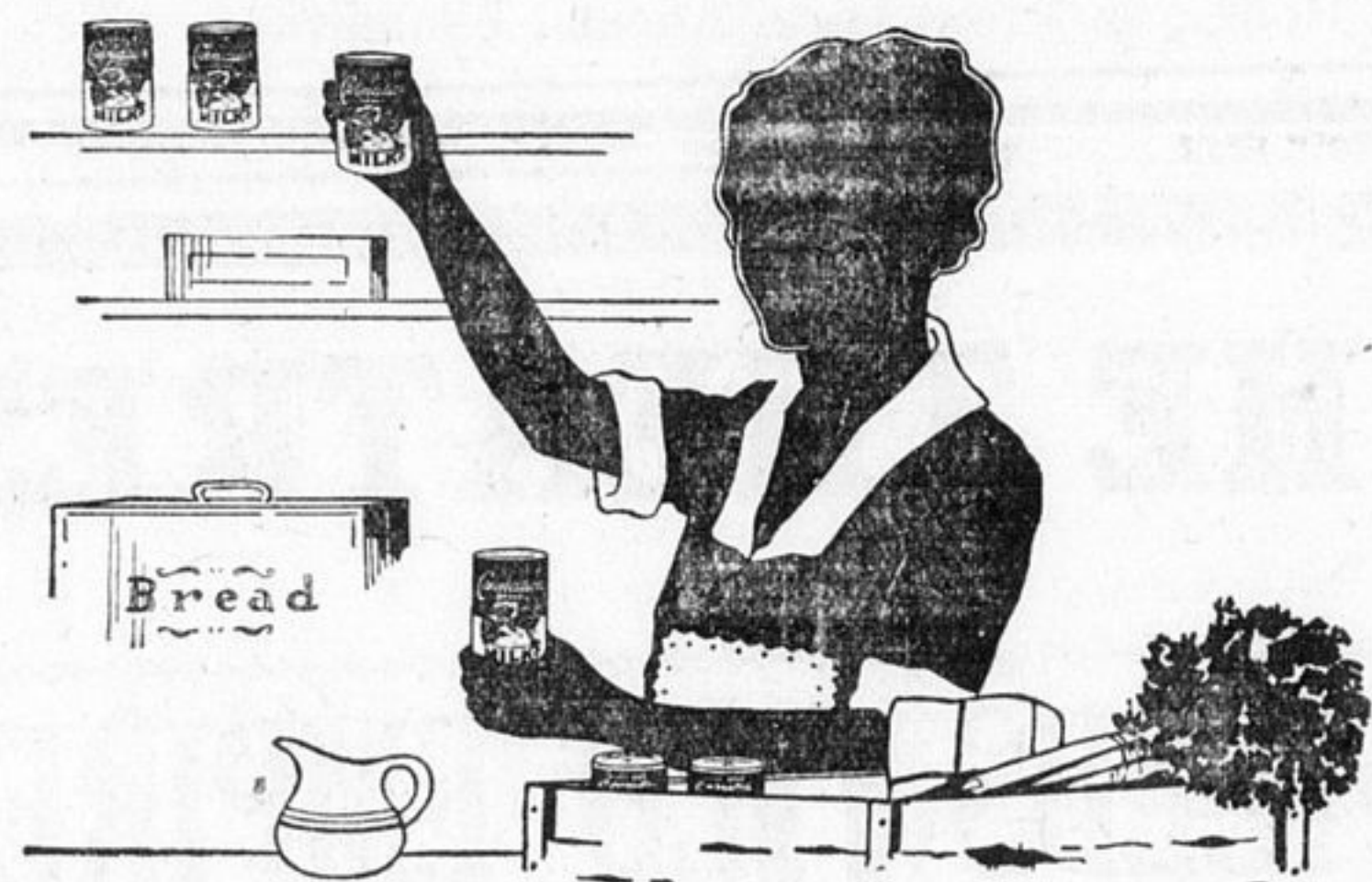
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Prepared by Mary Blake of our Domestic Science Department will gladly be sent to you free on receipt of the coupon below. The Carnation Recipe Book, beautifully illustrated, is filled with interesting and helpful cooking lore. Send for it today. Meanwhile try these recipes:

CREAMED SALMON

2 cups salmon, 2 cups white sauce (see recipe below). Cut the salmon into fine pieces, add to hot white sauce and serve on toast. This serves six people.

CARNATION WHITE SAUCE No. 1

2 tablespoons butter, ½ teaspoon salt, 2 tablespoons flour, ½ cup water, ½ cup Carnation Milk. Melt butter until it stops bubbling, stir in flour and mix thoroughly. Add milk and water, stirring until thick and smooth. Add seasoning.

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