WEATHER MAN.

METHODS OF THE DOMINION METEO. ROLOGICAL BUREAU.

Chief, Mr. R. A. Stupart, Is the Mest Emiment Authority in the Country-Outmeets of the Weather Man-Distribut-Sing the News - The Cones and the Drams-History of the Bureau-Two Minds of Weather Talk

Taking about the weather has long been considered one of the most commonplace, puerilo of occupations. For generations the faturative of remarks such as "Hot example of overlay" or "See any most common to the com His views on the shifting conditions which combine to give us our weather are published in every daily peaper in Canada, and a few remarks on the manner in which these opinions are formed and how disseminated cannot fail to be of interest. Outposts of the Weather Man.

From Dawson City to Cape Breton Canada is dotted with meteorological stations, established, as nearly and spessible, at regular intervals. Of these there are five kinds, classified executing to the importance of the www.rk they do. Altogether there are 2223 of these weather watch-towers, www.ence scientific soldiers, armed watch weapons of precision, send in amounts of the movements of the enerange, the weather. In 244 of these ratations the observers are volun-dieses, most of whom are gentlemen and scientific proclivities. The Government, through the Central Burcomment, through the Central Burcomment at Toronto, provides them with
the mecessary instruments, and in rethe information he needs. In a few
highthouses and ports in the far
mosth, small sums are paid for the
resports, and in the other stations
strained weather men are employed.
From 36 stations in Canada and 60
firsthe United States despatches are Fram 36 stations in Canada and 60 in the United States despatches are sent to the quaint old building in Queen's Fark twice every day. These give the barometrical pressure, readings of wet and dry thermometers, readings of wet and dry thermometers, readings of wet and dry thermometers, readings of wet and minimum temperatures for the past twelve hours. At about 3.30 a.m. and 8.30 p.m. the telegraph instrument begins to tick, and for an hour the messages from Canadian points between Lake Superior and Cape Burcon continue to arrive. They are at once forwarded to the Thated States Bureau at Washing than. Then the American builetins are received, and afterwards the Camadian reports from Manitoba West, which are filed at the United States Weather Bureau in St. Paul, Minn. Weather Bureau in St. Paul, Minn.

Distributing the News.

Having gathered its news, the great object of the central office is the distribute it as quickly as possible. Fifteen minutes after the last the lagran has been received the work-ing chart for the weather map is useady. By ten o'clock the isobars hause been drawn, and some of the flower last sent out. (The isobars, it winess who have never noticed them wan olear, starlight nights, are the Eines on the weather map drawn clarough points where the atmospher-The pressure is equal at given periods.)

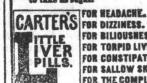
Namety copies of these maps are issuad daily, and are forwarded to these paper offices, the Doard of These and any places of business The evening report furmashad for the morning papers con-mashed for the morning papers con-mains a synopsis of the day's weather at the chief stations throughout the East the chief stations throughout the Dominion, a description of the metaconsological conditions prevailing generally, with representative temperarepresentative temperathe first message over the wires in The morning. The morning forecast was issued to supplement it when Mr. Stupart took charge of the department in 1894, and is published

The Cones and the Drums.

As far as the average conversationist is concerned this is the weawither. It comprises, however, a small past of the bureau's work. Of the cather branches, the most important, cather branches, the most important, perhaps, is the storm-warning service supplied to 73 stations. The signals for which the mariner turns an anxious eye are in two shapes—comes and drums. When moderate spaces are expected the cone is displayed, and when heavy storms are shown. When the apex of the cone practice downward, the storm is compared from the south or east, and when meg from the south or east, and when ungward, from the west or north. It is noted in Mr. Stupart's report to the Government in 1901 that the Eureau's warnings were verified in 186.4 per cent. of the cases in which where were issued. When not engaged in preparing either forecasts or warnings, the staff of 20 at the observatory works are compiling statistical information regarding the climate, or fine advancing the monthly weather chart. For some years bulletins were sampled trains at different points, and travelers appreciated this convenience. The practice was discontinued, however, because of the train hands failure to regularly postution. Within the past few days an important improvement in the daily multin has been made by adding 1854. Catharines to the list of points. ing from the south or east, and when

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CUPE SICK HEADACHE.

which receive complete daily bullet-

fins. This enables every captain of a boat, as he passes through lock three at Welland, to receive a weather report. The other cities in receipt of this morning service are, besides Toronto, Halifax, St. John, Quebec, Mortveel, Ottowa, London, and Montreal. Ottawa, London, and

Hamilton.

Wistery of the Bureau Like the universe as a whole, and like many of its most important institutions, the Canadian weather bureau evolved itself from nebulae. bureau evolved itself from nebulae. Its beginnings were very modest, indeed. Founded originally more than half a century ago, it continued for some years as evidence of the insatiable curiosity of some of Toronto's early scientists. Since 1841, indeed, observations have been made in the worm-eaten old building, and for thirty years afterward learned gentlemen continued to make observations of sun moon and stars withtlemen continued to make observa-tions of sun, moon and stars with-out the aid of the Government. In 1871 a grant of \$5,000 was made to Prof. Kingston, then in charge, the Government being anxious to vessels warning of approaching storms. By 1880 the observatory had become a regular Governmental bureau, with Mr. Charles Carpmael,

The Burden He Would Bear.

Uncle George—You are always wishing that you were rich. Don't you

know that riches are really a burden to

Harry-That's just it. I want some

sort of a burden to try my endurance and make me a better man, and I don't

think of anything that fills the bill

better than money, and lots of it.-Bos-

Four Months.

Was Unable to Turn in Bed

Without Help.

Plasters and Liniments

No Good.

This was the experience of Mr. Benjamis Stewart, Zionville, N.B.

TWO-THIRDS OF A BOX OF

Doan's

Kidney Pills

CURED HIM.

He tells of his experience in the followlng words: "For four months I was troubled
with a lame back and all this time was un
able to turn in bed without help. I tried
plasters and liniments of all kinds but with
no effect. At last I was induced to try
Doan's Kidney Pills, and by the time I had
used two-thirds of a box my back was as
well and as strong as ever and has keps
so ever since."

Backache, Frequent Thirst, Scanty,

Cloudy, Thick or Highly Colored Urine,

Puffing under the Eyes, Swelling of

the man who has them?

had become a regular Governmental bureau, with Mr. Charles Carpmael, an English scientist, in charge. For fourteen years he continued in this position, to be succeeded by Mr. R. A. Stupart, the present chief, whose special qualifications for the post have been widely acknowledged. The expenditure has increased to \$80,000 a year, and more money is needed to properly equip the present observatory and pay the salaries of the little army engaged in the work. As to the importance of the results achieved by the bureau it is superfluous to speak. Merchants, farmers, mariners and picnickers will vouch for it. Timely prognostications, worth of property, and hundreds of lives. Untimely prognostications, scarcely less valuable, have given us something to valuable, have given us something to talk about. For all of which we should be grateful to Old Probs, says the Toronto Mail and Empire.

dazed and parched, and if the fire leaped this stream it would have caught us in the woods.

saw the flames like clouds of fire leap over our heads and seize the tops of the trees on the southern bank. The fire nad jumped the stream

ter, waiting for the fire to burn out on the northern shore. A great weariness and stupor weighed down. Presently we felt the air grow cooler. It was raining; and we dragged ourselves to the northern bank, noses close to the baked earth and Lame Back for

slept.

"Afterwards we learned that the fire had ruined a stretch of timber three hundred miles long and seventy-five miles wide."

About Lord Minto.

Marquise de Fontenoy, in Chicago Tribune: Lord Minto, whose term of office of Governor-General of Canada office of Governor-General of Canada has just been prolonged for another year, is a man whose life has been more replete with excitement and adventure than most of his predecessors at Ottawa. Thus, during the Turko-Russian war of 1876 and 1877, he was attached throughout the campalgn to the Ottoman forces, was present at the bombardment of Nicopolis, besides taking part in many other engagements. Subsequently, he served under Lord Roberts throughout the Kurrum Valley campaign, and it was only by mere chance that he was prevented from joining the mission of Sir Louis Cavagnari, who with his entire staff and retinue, was massacred at Kabul. He took part in Lord Roberts' celebrated march to Kandahar, was in the Egyptian war of 1882, and in the subsequent Souderness campaigns and with in Coulonse and within so compared and the subsequent Souderness campaigns and within 50of 1882, and in the subs

Lemons in the Toilet

A NORTHERN FOREST FIRE Terrifying Experience of Three Explorer -300 r 45 Miles Bursed.

A geologist who explored with two perpendions a region on the western have of Hudson Bay had an exper-ence in a forest are which could ha dly be equalled in scope and ferceness farther south, where the woods are broken by settlements. The men had pushed far to the no.th of Port Nelson into a land inhabited by tribes of Indians, where to white had left a trace.
"We had crossed the mouth of a stream," he says, "which forked twice some distance from where it opens into the bay, making two long, narrow deltas. By sundown we had gone a mile or so north of the upper branch. The air grew hot equalled in scope

the upper branch. The air grew hot and dry. The light in the western sky was more dense and solid than that of the sunset, and it extended round to the north beyond the range of the setting sun. We knew that it was a fire, and halted on a rising slope, where we could get a broader iew of the sky.

"The wind was from the north-west, and the fire must be coming straight toward us. In the hope of reaching one of the deltas of the stream which we had crossed over stream which we had crossed over about a mile to the south, we turn-ed back and walked for our lives. "We reached the upper branch of the stream before the fire overtook

us, crossed it, and sat panting on the southern shore. The sun had set, and the fire marked its limits in wide sweep covering the north

"As we sat waiting, the brush across the stream crackled, and five or six deer broke from the woods and stood on the bank, sniffing.

and stood on the bank, snimmg.

"The air grew dense. A dull roar like a distant surf was blown to us from the north. I climbed half-way up a small tree, and then I saw a sight. Perhaps five miles away came the fire, a sea of red flame under a wall of smoke that rolled on in advance.

"Before I descended from the tre the smoke was on us. One of my companions, noting that the trees of the delta were of a smaller growth, thought we were safer on the lower delta, with two strips of water and an island between we and the fire. So we moved on for a few hundred yards to the next mouth of the

stream.
"We were wrapped in smoke. The roar of the fire grew like a storm. We waded into the water, took off We waded into the water, took off our coats and wrapped them wet about our heads. Then we noticed that we were not alone. Round us, only a few yards away, stood groups of horned creatures. Behind us a black shape lay in the water, evidently a bear. The danger had made the whole world kin, and fear of the common enemy had made all the driven animals tame to each other. "Ashes and cinders settled over us, and we bowed our heads close to the

and we bowed our heads close to the water. The heat grew intense. Then with a stride the fire burst over our northern bank. We waded to the south shore and waited. Our coats grew hot on our heads, and we ducked again and again. I turned and looked at the fire. I mounted, I should say, more than a hundred feet and leaned across the stream, which was fully two hundred feet wide. Under that leaning bank of flame we crouched in the water, which grew tepid, and was foul with the countless animals that for miles

on to the next stream. We were

Suddenly I raised my head, "For an hour we stayed in the wa

of 1882, and in the subsequent Soudanese campaigns, and, while in Canada as military secretary to the Governor-General, in 1885, acted as chief of staff to the expedition for the suppression of the Riel insurrection. He is a fine soldier and a manly fellow, and, as such, the personal popularity which he has won for himself in Canada is great, and the news that his term of office has been prolonged is giving, so I hear, general satisfaction.

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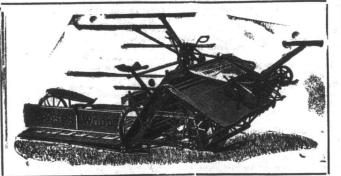
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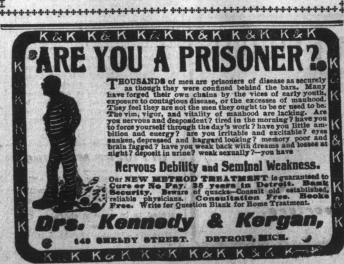
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