

THE CANADIAN BANK OF COMMERCE

SIR EDMUND WALKER, C.V.O., LL.D., D.C.L., President
ALEXANDER LAIRD, General Manager JOHN AIRD, Ass't General Manager

CAPITAL, \$15,000,000 RESERVE FUND, \$13,500,000

FOREIGN BUSINESS

This Bank offers unsurpassed facilities to those doing business with foreign countries. It is specially equipped for the purchase and sale of Sterling and other Foreign exchange, drafts and Cable Transfers, and for the financing of imports and exports of merchandise. Commercial credits, Foreign Drafts, Money Orders, Travellers' Cheques and Letters of Credit issued and available in all parts of the world. Collections effected promptly at reasonable rates. S22

G. W. HARRISON, MANAGER, FREDERICTON BRANCH

In Touch With the Infinite

The nearer you get to Nature's ways, the closer you are to the beginning of things, in lumber camp, or open prairie, the more you understand that blessed touch with the infinite which is more than legalities and rubrics and articles; and is in harmony with the will of the Infinite, which you can neither cabin in a creed, nor fathom with a traditional plummet.

Across the mists and strike the river where it turned eastward once more, avoiding the long detour back. In fact, she had declared her intention of doing that to Kirby and he had given her careful directions so that she should not get lost in the moun-

Egyptians Grew Alfalfa

There is nothing new about alfalfa. Alfalfa is as old as the pyramids. It was grown in the time of Rameses, the first Egyptian ruler that history tells us very much about. Caesar and his predecessors were strong believers in alfalfa, and their cavalry horses were fed upon it. Books on agriculture, written in the early days of the Roman empire, tell how to grow alfalfa. Doubtless the world-wide supremacy of Caesar's armies and the Roman empire was due in no small way to the abundant yields of alfalfa grown by the Roman farmers.

ENGINEER BARBOUR'S REPORT ON PUMPING STATION

The balance of Engineer F. A. Barbour's report on Pumping Station is as follows:

PUMPING STATION

In reference to the pumping machinery at the station an analysis of the records shows that the economy which might reasonably be expected has not been obtained.

"In the first place as pointed out in my letter of April 10, 1908 to Mayor Chestnut, an automatic damper regulator would improve boiler efficiency and would in addition by maintaining a constant steam pressure, assist in the development of a constant speed of the low lift pumps."

"In the second place as also stated in the letter just referred to a new heater to utilize the waste heat from the exhaust steam of the low lift pumps instead of turning live steam from the boiler into the present heater as is now done, would greatly improve the economy of the low lift pump, and would well justify its cost."

In the third place the operation of the Allis-Chalmers pump, with the bypasses open, so that thirty five per cent of the water pumped (as determined by a test made by me in December 27, 1913) is merely forced back and forth against the pressure and only 65 per cent enters the mains, results in a useless increase in the steam consumption of at least 25 per cent. As stated in my letter of April 10, 1908, I believe that if this engine were kept in first class condition it could be run with the bypasses closed, or nearly closed down to a speed of eight revolutions per minute.

To run at such a low speed without bypassing is only possible with the engine in good condition and cannot be done without certain repairs are made, notably in the low pressure cylinder so as to obtain a better vacuum.

"It is evident that this (Allis-Chalmers) engine is not working economically and should be overhauled in which connection I have written the Allis-Chalmers Co., and in reply they suggested that you instruct them to send a representative to Fredericton to examine the engine and report on what work should be done and its probable cost. The work to be done in a general way, includes repairs to the low pressure side to enable a better vacuum to be maintained, determination of the cause of the knock in high pressure side, and an examination of the pressure governor to ascertain if at the low speed, this engine can be run on this governor. I would recommend that you have this representative of the Allis-Chalmers Co., visit Fredericton at once."

ELECTRIC POWER.

"In reference to purchase of power from the projected hydro-electric development, I am not definitely advised as to the final proposition to be made. Certain general conditions must play a large part in your consideration of the use of this power for pumping water."

"In the first place—because of the risk of accident to the transmission lines and because of the difficulty in driving pumps by motors in a direct pressure system, a storage reservoir back of the city would be necessary. All the water used in domestic service would, therefore, have to be pumped against the fire pressure and the work done would necessarily be about double that now required under the present system."

"Assuming that a motor-driven centrifugal pump (50 per cent efficiency) were to pump 600,000 gallons per day against a total head of 200 feet (necessary to deliver the reservoir) and that the low lift pump would develop 40 per cent efficiency, the total power required at the water works station would be about 400,000 kilo-watt hours per year. Deducting from the total cost used that chargeable to heating which would continue to be necessary, the cost of fuel chargeable to the operation of the present pumping engines is about \$5,000 yearly—the sum which could reasonably be paid for the electric power required, or at the rate of 14 cents per kilo-watt hour delivered at the station. Since one man per shift will continue to be necessary for the operation of pumps and filters no change would be affected in the labor account. It would therefore, appear that, even with the present low efficiency of the pumps electric power must be offered at a cost not much exceeding 1 cent per kilo-watt hour to justify its installation in the water works station. This does not take into account the interest on new investment in pumping machinery nor in the reservoir and connecting pipeline, which latter might possibly be offset by some reduction in the insurance rate."

"On the other hand, at the electric light plant, basing judgment on an output of 105,000 kilo-watt hours per year, as estimated by Mr. Davidson, and charging against this the cost of fuel and a fair proportion of the labor account, it is evident that any

proposal to furnish power for less than 3½ cents per kilo-watt hour for lighting purposes would be worth considering.

"Obviously, the advisability of entering into any agreement to purchase electric power can only be properly canvassed on a definite proposition and must depend largely on the reliability of the project and the insurance guarantee against interruption of the service. On the basis of present information I conclude that with this machinery at the pumping station kept at its best efficiency and with due consideration for the requirement for the filter plant in point of attendance, the work of pumping water can be done more cheaply with the present equipment than you can probably arrange for electric power, guaranteeing equal insurance, but in the case of the electric light plant, current from a hydro-electric development might be another proposition. Further than this, without knowing more definitely the character of the proposed hydro-electric development, I cannot advise at the present time."

Yours respectfully,
F. A. BARBOUR.

NOT IN SEISMIC AREA

Canadians Need Not Fear Danger From Earthquakes

Over the greater part of Canada, says a report of the Dominion Observatory, we need have no fear of any disastrous earthquakes; we are too near the primeval rock; we have too few formations beneath us in which the compression and adjustment take place. The weak line of the surface of the earth in Eastern Canada, an old wound that would be the first to open afresh, if strains were to become excessive, is the Great Champlain fault running down the bed of the St. Lawrence from Levis to the Gulf.

Mild quakes which are sometimes experienced in the Dominion are described as very minute manifestations of the pent up energy of the earth, although to us, small crawlers on the surface, they arouse fear and trembling in some quarters. The earth is always under strain and from various causes.

HAD INDIGESTION.

Almost Despaired of Ever Getting Well.

When your food has not been properly digested, your body has not received the benefit it should. The exertions of the gastric juice have been confined entirely to removing the unmastered, undigested portions of food, which they cannot properly digest as speedily as possible from the body, therefore only giving the blood a small percentage of nourishment with which to feed the tissues. No wonder then that Indigestion and Dyspepsia attack the stomach. No medicine can surpass Burdock Blood Bitters as a cure for this particular disease. It regulates the bowels, promotes perfect digestion, makes pure blood, tones the stomach, and thus restores perfect health to the debilitated system.

Mrs. Mary MacKay, Hunter's Mountain, N.S., writes:—"I was troubled with Indigestion for more than ten years. I tried several Doctor's medicines claiming the power to cure, but all without success. Having heard of the many cures effected by Burdock Blood Bitters, I decided to give it a trial. After taking two bottles I was completely cured. My appetite which was very poor, is now good, and I can eat most everything without any disagreeable feelings. I can strongly recommend B.B.B. to anyone suffering from Indigestion."

A Mounted Policeman Found Man of These in the Far North

One of the mounted Canadian police, who patrol great stretches of almost uninhabited land in the northwest, discovered a band of Indians, who had breweries and were making "fire water" constantly for their own use, east of the Hay River, and 600 miles from civilization. The Hay River is a thin black line running through the white terra incognita south of the Great Slave Lake.

The patrolman made a personal investigation and found a happy lot of Indians among whom "fire water" was quite as common as it used to be down in Kentucky. He found that nearly every "buck" was the proprietor of a "brewery," and that life south of the Great Slave Lake was one long and joyous spree.

A strange white man had sold the secret of making "fire water" to the Indians, and they were making a "brew" of potatoes, hops, sugar and yeast, which, when allowed to ferment, was strong enough to cause intoxication. During the warm summer months the Indians raised potatoes for this brew, but in scarcely any instance could they be persuaded to grow anything for food.

Canada Attracts Investors

A leading Canadian financial publication estimates that there is now at least \$599,000,000 of United States capital invested in Canada. Over \$150,000,000 is in the shape of branch factories and warehouses of United States manufacturers, while nearly \$124,000,000 is invested by residents of the United States in Canadian government, municipal and industrial bonds. United States life and fire insurance companies have \$87,000,000 invested in the Dominion, while over \$130,000,000 is invested in British Columbia mills, lumber and mines.

Investments in the prairie provinces are in lands, mines, packing plants, factories and warehouses.

CLASSIFIED

Wanted

WANTED—Boys and girls to sell novelties just honest and arduous who wish to earn from \$8.00 to \$12.00 per week. Write O. D. Ferdinand Co., 738 Norwood Blvd. Edmonton, Alta. 531-d 3 mos.

MALE—Earn \$15 weekly for few ours work mailing circulars for Large Mail Order House. Supply furnished free. Men wanted everywhere.

NATIONAL SUPPLY CO., Windsor, Ont.

Was Confined To His Bed For Four Months With Rheumatism.

Mr. W. H. Riley, Ruddell, Sask., writes:—"It is with the greatest of pleasure that I can recommend Doan's Kidney Pills to all suffering with rheumatism. I was so bad with this terrible disease, I was unable to get up from my bed for four months, and nothing seemed to relieve me until a friend recommended Doan's Pills. I had my doubts about them, but was so desperate I would try anything suggested to me. After taking half a box I was able to get up, and after taking two boxes could get around quite well. After taking six boxes I was completely cured, and able to work for the first time in five months, and have not had a touch of rheumatism since. Anyone who saw me then would not know me now, as I am strong and active since taking your valuable medicine."

Doan's Kidney Pills help the kidneys to flush off the acid and poisonous impurities which have collected, and thus clean out the kidneys, and dispel the rheumatism from the system.

Doan's Kidney Pills are 50 cents per box, or 3 boxes for \$1.25, at all dealers, or mailed direct on receipt of price by The T. Milburn Co., Limited, Toronto, Ont.

If ordering direct specify "Doan's."

South Dakota and South Carolina are the only states in which tin is produced.

"MAIL" ADDS BRING RESULTS

Skate Grinding

BEST IN THE CITY.

SKATES REPAIRED AND PUT ON BOOTS. LET US STORE YOUR BICYCLE FOR THE WINTER.

Wm. C. Burt

F'ton. N. B.

Advertise in the Daily MAIL

After Stock Taking Sale

Greater Reductions Than Ever On All Trimmed Hats, Wings and Fancy Feathers.

All Winter Goods Must Be Cleared at Any Price.

The Misses Young

476 Queen Street

HIGH COST OF LIVING

Is the question now before all the big companies and governments

Our goods for manufacturing are high, too, but we have got the quality and give you a lot of good food for the small price of 5 cents. We are manufacturing fresh Crispettes every day and you cannot get any better food or confectionery than corn; pure clean and wholesome.

Enterprise Bottling Co

Office King Street - Fredericton, N. B.

Big Half-Price Sale

Of Whitewear, Waists, Dresses, etc., next Thursday, January 29th. at 10.30 a.m.

Dainty Underwear, Waists, Dresses, Children's Whitewear, Aprons, etc. at Half Price for Thursday ONLY

The following days 10 to 20 per cent reduction. Don't fail to attend the greatest event of the season

R. L. BLACK

York S

Not "Raised" with Yeast

You can "raise" a loaf of white flour bread with yeast—but you can't "raise" husky, robust Canadian youngsters in that way. The best food for growing boys and girls is

SHREDDED WHEAT

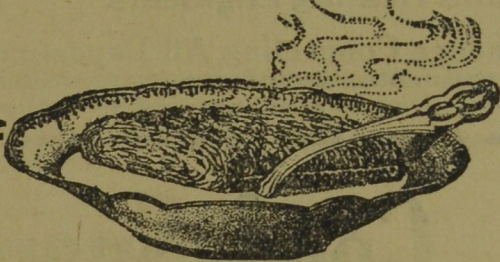
It contains no yeast, no fats, no chemicals of any kind—just pure whole wheat steam-cooked, shredded and baked. The crisp, brown Biscuits are not only deliciously appetizing, but they encourage thorough chewing, which makes them better than porridges for growing youngsters. A Shredded Wheat Biscuit with cream and sliced bananas makes a wholesome, nourishing meal and will give all the strength needed for a half day's work or play.

Always heat the Biscuit in oven to restore crispness. Two Shredded Wheat Biscuits with hot milk or cream will supply all the energy needed for a half day's work. Try Toasted Triscuit, the Shredded Wheat wafer, for luncheon, with butter, cheese or marmalade.

The Canadian Shredded Wheat Company, Limited
Niagara Falls, Ont.

Toronto Office: 49 Wellington Street East

W-24



Our Whitewear Sale

Commences Thursday, January 29th.

Matchless Values in Night Dresses
Underskirts, Drawers, Princess Slips
Corset Covers, Combinations and
Bridal Sets.

Children's White wear, in Drawers,
Underskirts and Night Gowns

See the new styles in
Canadian and American Corsets

A. Murray & Co.