

## CANADA'S COAL FIELDS.

Our Deposits of Black Diamonds are in the Far East and the Far West—Area of Production.

Canada's coal deposits are in the far East and the far West. That is why we in Ontario are dependent upon the United States for our supply.

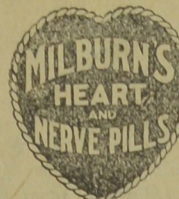
In the year 1900 the output of the British Columbia coal mines amounted to 1,590,179 tons. Of this quantity 1,383,375 tons came from the Vancouver Island fields, the remainder being yielded by the mines of the Crow's Nest Pass. By far the larger part of the British Columbia coal is sold outside of Canada, to purchasers in California, the Hawaiian Islands, and Alaska. The China and Australian steamships are also large consumers. In 1900 California took 766,917 tons, which was somewhat more than half the yield of the British Columbia mines for that year. The Nanaimo, the Wellington, the Union, and the Alexandria are the great collieries of Vancouver Island. The coal produced on the island is of a hard bituminous variety, more closely resembling the Welsh coal than that of Ohio. It is of a high grade, both for steam and coking purposes, and is largely used for house heating. At Nanaimo the principal mine is directly on the shore and the galleries are pushed out far under the water, so that at Cape Breton, vessels may load with coal that is extracted immediately beneath them. The producing mines are in the hands of private companies.

Mr. J. McEvoy, an official of the Geological Survey, made a report on the Crow's Nest coal field in the Rocky Mountains, which he explored for the purpose in 1900. He estimates the extent of the coal area there at 230 square miles, or 147,000 acres. He calculates that the coal per acre should be 153,480 tons of 2,240 pounds, and the total yield 22,595,200 tons. Of this area 50,000 acres is owned by the Dominion, the remainder belonging to the Crow's Nest Pass Company and the Canadian Pacific Railway Company. In 1900 the Crow's Nest Pass Company raised 206,803 tons, of which 47,353 tons were for coke-making purposes. There were exported to the United States 7,968 tons of coal and 38,958 tons of coke, the remainder of the output being sold in Canada. Geologists report upwards of 50 workable seams of coal in the Crow's Nest region. These seams vary in thickness from 4 to 30 feet, and about one-third of them are cannel, the remainder bituminous. Some years ago Dr. Selwyn, at that time director of the Geological Survey, estimated the coal there at 75,000,000,000 tons, more than three times the quantity Mr. McEvoy places it at. Mr. McEvoy's figures are considered very conservative. Analysis of coals from the pass have been made by the Geological Survey. They show from 67 per cent to 69 per cent of fixed carbon. Other analysis are said to have shown as much as 78 to 80 per cent of carbon present. A coke containing 93 per cent of carbon has been obtained from Crow's Nest coal. A portion of the Crow's Nest deposit extends into Alberta district. Upon this extension the British America Coal Company has done a great deal of prospecting.

Besides the spur from the Crow's Nest coal fields, there are other deposits in the Northwest Territories. In Alberta there are mines at Lethbridge, Anthracite, Canmore, and Edmonton. Farther to the east are the Souris mines. About half the total production is taken by the Canadian Pacific Railway Company. It has not yet reached half a million tons in one year. The anthracite coal near Banff is quite equal to that of Pennsylvania, and is used for car heating and for domestic consumption. An almost smokeless coal is that produced at Canmore. The Galt coal mines at Lethbridge yield a good bituminous coal, well adapted for railway uses. It was estimated by Dr. Dawson that the coal measures stretching from Lethbridge, eastward, along the American border to Manitoba, cover 15,000 square miles. In the Yukon district there are numerous lignite areas, from which coal, yielding 40 per cent of fixed carbon, is mined.

In 1901 the Dominion Coal Company raised 2,561,783 tons from its Cape Breton mines. Of this quantity 863,633 tons were delivered at St. Lawrence ports, and about 600,000 tons was exported to the United States. Altogether, in 1901, there was produced in Nova Scotia 3,800,000 tons. The Nova Scotia Steel and Coal Company is a large producer. Its chief property is at Sydney mines, Cape Breton. In Inverness County considerable progress has been made in development. Pictou County mines and those of Cumberland County are productive. Ten or twelve companies are raising coal in Nova Scotia.

The mines held by the Dominion Coal Company are under a lease from the Provincial Government, to which the company pays a royalty. In a statement, made under examination, by Dr. F. L. Slocum, of the Pittsburgh Gas Engineering Company, before a committee of the Massachusetts Legislature, the coal of the International mine of Nova Scotia was ranked about equal in value to the best product of Pennsylvania mines. From the Duke of York, to whom the coal lands of Nova Scotia were granted by King William IV., under an Act of the Royal prerogative, they passed by lease to the General Mining Association in 1826. The lease called for the payment to the Duke of a royalty of 1s. a ton. For a time the General Mining Association had a monopoly of coal production in Nova Scotia. Active mining



Are an invaluable remedy for all diseases and disorders arising from Weak Heart, Worn Out Nerves or Watery Blood.

They are a true heart tonic, nerve food and blood enricher, building up and renewing all the worn out and wasted tissues of the

body and restoring perfect health to those who are troubled with Nervousness, Sleeplessness, Nervous Prostration, Brain Fag, Faint and Dizzy Spells, Listlessness, Palpitation of the Heart, Anæmia, General Debility, After Effects of La Grippe and all troubles arising from a run down system.

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was bought in 1850. In 1857 the Duke of York's lease was surrendered, and the mines now operated by the Dominion Coal Company became the property of the Province. By the Province they were leased to the Dominion Coal Company. But the General Mining Association—a British corporation—retained the coal fields at Sydney mines—an extremely valuable property—until a few years ago, when they were purchased by the Nova Scotia Steel and Coal Company.

## COLLISION WITH A COMET.

What Such a Catastrophe Would Mean For the Earth.

Although it is exceedingly improbable that the earth may be destroyed by collision with a comet or some huge meteor, still the fact that such a contingency is possible is sufficient ground for discussion on the subject and for imagining what the result might be, says the Woman's Home Companion.

The earth is moving around the sun at a velocity of eighteen miles a second, while the sun, with all its attendant planets, is being hurried on toward the great fiery constellation of Hercules at a far greater velocity. The very fact that small meteors exist proves the possibility of the existence in space of meteors of inconceivable magnitude. Even great black dead worlds may lie in our path, like breakers in the path of a ship. Fifty miles a second is not an unusual velocity for heavenly bodies, and some are known to move at a speed even in excess of a hundred miles a second, five hundred times the speed of a rifle ball. Small meteorites, which reach the earth at a velocity of from twenty to thirty miles a second, are instantly consumed by the friction generated with the atmosphere. Large meteors, however, occasionally reach the earth, escaping destruction from their size, but are found to have their surfaces fused from heat generated by the passage through the atmosphere.

Although it is not probable, still it is possible, that the earth may some time encounter such a shower of small meteors, perhaps in the form of a comet, that the heat of combustion from friction with our atmosphere and the poisonous gases thereby generated might destroy all terrestrial life.

## Ancient Lightning Rods.

The ancients did not have lightning rods constructed as ours are, but they had lightning conductors, which shows that they knew how to protect themselves from the danger that lies in a thunderstorm. Even so long ago as the tenth century lightning was diverted from fields by planting in them long sticks or poles, on top of which were lance heads. It is said that the Celtic soldiers used to try to make themselves safe from the stroke during a storm by lying on the ground with their naked swords planted point upward beside them.

There was long ago on the shore of the Adriatic sea a stronghold known as Dunle castle, on the highest tower of which there was an iron rod that was used as a means of telling when a storm was approaching in summer. A soldier was always stationed near the rod when the sea had a threatening look, and it was his duty to frequently put the iron point of his javelin close to the rod, watching for the spark that would tell him it was time to warn the fishermen by ringing a big bell.

## Their Teeth Betray Them.

"There is only one feature of an actor which will 'give him away' when disguised in a perfect makeup," remarked a young actor, "and that feature is the teeth. Let a man do what he will to his face, let him cover it with all kinds of paint, beard, whiskers and what not, but the teeth will disclose his indubitable identity directly he opens his mouth to speak a line or to emit a laugh.

Ragged clothes quickly—that's what common soaps with "premiums" cost; but

**SUNLIGHT SOAP** REDUCES EXPENSE

Ask for the Octagon Bar

"I myself, when sitting in the front of a house watching other people's performances, have frequently been puzzling myself as to the identity of a cleverly made up player, but no sooner has the said player disclosed his 'ivories' than I have at once spotted him, provided, of course, he has chanced to be a man whose face I know moderately well. Strangely enough, hardly any one is aware of this curious truth, but it remains an undeniable fact all the same."

## Raising the Wind.

It seems incredible, but is nevertheless a fact, that as late as the year 1814 an old woman named Bessie Millie of Pomona, in the Orkney Islands, sold favorable winds to seamen at the small price of sixpence a vessel. For many years witches were supposed to sell the wind. The Finlanders and Laplanders made quite a trade by selling winds. The old woman, after being well paid by the credulous sailors, used to knit three magical knots. The buyer was told he would have a good gale when he untied the first knot, the second knot would bring a strong wind and the third a severe tempest.—Irish Times.

The sono-koto, a board, bridges and strings, is the representative instrument of Japan.

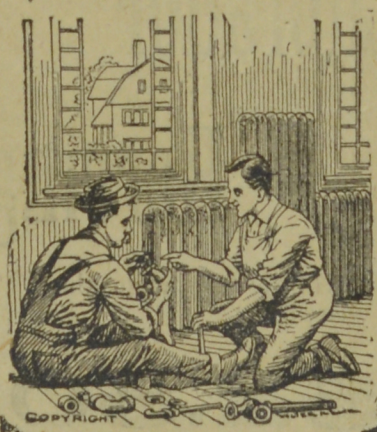
## Be Prepared.

Jack Frost has been in hiding for some time. He will appear some of these days without giving any notice and will meet you more than halfway.

## LUCY &amp; CO.

Have been anticipating a visit from him, and in order that their Customers may be prepared, have provided a large stock of warm serviceable goods in Clothing, Boots, Shoes, Overboots, etc.

They have just received their fifth shipment in Men's and Boys' Raglanettes and Overcoats and Reefers. Their Men's Rice Box Calf and Grain Boots are up to their usual standard and marked away down. They also keep Stanfield and other well known brands of Gent's and Boys' Underwear, beside a large stock of Men's Furnishings, comprising Collars, Ties, Handkerchiefs, Umbrellas, Hosiery, Mittens, Gloves, etc., in Kid Buck, etc. All will be marked down for Saturday, Bargain Day.



## Meet Winter Halfway...

And you will conquer when he arrives. Have your heating arrangements put in proper order now, so you will be cosy and comfortable when the first cold wave arrives. We make a specialty of Hot Water and Hot Air Heating.

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Metal Worker and Plumber, Coy's block, Queen street.

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HERALD OFFICE.

## Sore Throat

Many people, especially children, are suffering from sore throat and coughs, caused by the damp, cold weather. It is easy to slip from sore throat or a slight cough into serious illnesses. A few doses of

## Staples'

## Syrup of Tolu

## and Wild Cherry

Will heal a sore throat and cure a cough. 25 cents. Prepared and sold only at

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You can afford it, you intend to insure your life. So did the man who died yesterday.

There's no time for opportunity like the present, and

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## Policies

Cover the entire quota of requirements.

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A variety of plans adapted to any necessity

Albert J. Machum, MANAGER, St. John, N. B.

## INTERCOLONIAL RAILWAY

On and after Sunday, October 12th, 1902, trains will run daily (Sundays excepted) as follows:

## TRAINS WILL LEAVE ST. JOHN

|                                                            |       |
|------------------------------------------------------------|-------|
| No. 2 Express for Halifax and Campbellton.....             | 7.50  |
| No. 134 Express for Quebec and Montreal.....               | 18.00 |
| No. 26 Express for Point du Chene, Halifax and Pictou..... | 12.15 |
| No. 8 Express for Sussex.....                              | 17.10 |
| No. 4 Mixed for Point du Chene.....                        | 13.15 |
| No. 10 Express for Halifax and Sydney.....                 | 23.25 |

## TRAINS WILL ARRIVE AT ST. JOHN

|                                                   |       |
|---------------------------------------------------|-------|
| No. 9 Express from Halifax and Sydney.....        | 6.20  |
| No. 7 Express from Sussex.....                    | 9.00  |
| No. 133 Express from Montreal and Quebec.....     | 13.50 |
| No. 25 Express from Halifax and Pictou.....       | 17.40 |
| No. 1 Express from Halifax.....                   | 18.40 |
| No. 81 Express from Moncton, (Saturday only)..... | 24.35 |
| No. 3 Mixed from Point du Chene.....              | 16.50 |

All trains are run by Atlantic Standard Time. Twenty-four o'clock is midnight.

Moncton, Oct. 10, 1902.

Office Stationery. Get your Letter Heads, Bill Heads, Envelopes and all kinds of Office Stationery, at the Herald Office

Before After. Wood's Phosphorine, The Great English Remedy. Sold and recommended by all druggists in Canada. Only reliable medicine discovered. No packages guaranteed to cure all cases of Sexual Weakness, all effects of abuse of the system, Mental Worry. Excessive use of Tobacco, Opium or Stimulants. Mailed on receipt of price, one package \$1, six, \$5. One will please mix with cure. Pamphlets free to any address. The Wood Company, Windsor, Ont.

Wood's Phosphorine is sold in Fredericton by all responsible druggists.

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Everything new and clean. Experienced cook and caterer. Oysters, Clams and Delicacies. Ice Cream a specialty. Dinners and meals at all hours. Our motto: "Cleanliness."

## E. Washington,

Proprietor.

PHONE 61.

## BURN

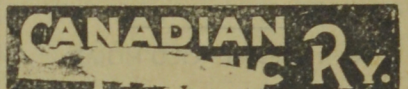
## Springhill

## Coal



The only Soft Coal that will give satisfaction in stoves or furnaces. Plenty in stock. Price reasonable.

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To Boston, etc. To Montreal.

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## ARRANGEMENT OF TRAINS

In Effect October 12th, 1

## ATLANTIC STANDARD TIME

## LEAVE FREDERICTON

|                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 6.25 a.m.—Week days, Express for St. John, St. Stephen, St. Andrews, Houlton, Woodstock and points north; Bangor, Portland and Boston.                                                                                                                                                                                                                                                                |  |
| 7.45 a.m.—Mixed, Monday, Wednesday and Friday, for Woodstock, Presque Isle, Edmundston, etc., via Gibson Branch. Leaves St. Marys 8.15 a.m.                                                                                                                                                                                                                                                           |  |
| 9.15 a.m.—Mixed, Tuesday, Thursday and Saturday, for Woodstock, Presque Isle, Edmundston, etc., via Gibson Branch. Leave St. Marys 9.41 a.m.                                                                                                                                                                                                                                                          |  |
| 9.45 a.m.—Express, week days, for Fredericton Junction, connecting with Express for St. John and points east. Palace sleeper Fredericton Junction to Halifax, N.S.                                                                                                                                                                                                                                    |  |
| 6.00 p.m.—Accommodation for Fredericton Junction, connecting with Short Line Express for Montreal, Ottawa, Toronto, and with the Pacific Express from Montreal for the west, Northwest and Pacific Coast, also connects for Bangor, Portland, Boston, etc., St. Stephen, Houlton and Woodstock. Palace sleeper from Fredericton Junction to Montreal. Pullman sleeper Fredericton Junction to Boston. |  |
| 9.00 p.m.—Express, week days, for St. John and points east.                                                                                                                                                                                                                                                                                                                                           |  |

## ARRIVE AT FREDERICTON

|                                                                                                                          |  |
|--------------------------------------------------------------------------------------------------------------------------|--|
| 9.05 a.m.—From St. John and points east.                                                                                 |  |
| 11.35 a.m.—Week days, from Boston, Montreal, St. Stephen, St. Andrews, Woodstock and Houlton, etc.                       |  |
| 6.20 p.m.—Monday, Wednesday and Friday from Woodstock and points north via Gibson Branch. Arrives at St. Marys 7.35 p.m. |  |
| 8.00 p.m.—Tuesday, Thursday and Saturday, from Woodstock and points north via Gibson Branch. Arrives St. Marys 7.35 p.m. |  |
| 8.10 p.m.—Week days from St. John and east.                                                                              |  |
| 10.40 p.m.—Week days from Boston, Portland, Bangor, St. Stephen, St. Andrews, Houlton, Woodstock and north.              |  |

All above trains run week days only.

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Dist. Pass. Agent, St. John, N. B.

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Cook's Cotton Root Compound Is successfully used monthly by over 10,000 Ladies. Safe, effective. Ladies ask your druggist for Cook's Cotton Root Compound. Take no other, as all mixtures, pills and imitations are dangerous. Price, No. 1, \$1 per box; No. 2, 10 degrees stronger, \$2 per box. No. 1 or 2, mailed on receipt of price and two-cent stamps. The Cook Company Windsor, Ont. Nos. 1 and 2 sold and recommended by all responsible druggists in Canada.

No 1 and No 2 are sold in Fredericton by all responsible druggists.