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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 \$67,000,000 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.

FROM THE LATEST BOOKS

"The plain man on a plain day wakes up, slowly or quickly according to his temperament, and greets the day in a mental posture which might be thus expressed in words: 'Oh, Lord! Another day! What a grind!'—From 'The Plain Man and His Wife' by Arnold Bennett.

Novel Street Lighting

To eliminate the glare from street lamps an English engineer proposes to illuminate streets by the reflection of lights thrown against the fronts of buildings.

INFINITELY SMALL

Billions of Billions of Atoms Make up a Pinch of Salt

We know that the big telescopes, aided by the photographic plate, reveal stars to the number of at least one hundred millions lying utterly beyond the confines of unaided vision, wrote Dr. Henry Smith Williams. Now it appears that a pinch of salt which one could hold on the point of a penknife, is made up of atoms numbering hundreds of millions merely, but billions of billions.

The population of atoms in the smallest particle of matter visible under the microscope is greater by far than the total human population of the globe since the race developed. And a little instrument composed of two fragments of gold-leaf makes it possible to perform the miracle of counting these denizens of the realm of infinite littleness.

Within the smallest atom there is a something almost two thousand times smaller than the atom itself—a something that is detachable from the atom, and susceptible of being measured as to its mass, and tested as to its electric charge with the aid of apparatus actually in use in the laboratory. This ultimate particle of matter is called the electric corpuscle of electron. It is the smallest thing in the world, and it is probably the basal substance out of which all matter of whatever character is built.

As regards bulk, the electron is, according to the French physicist, Jean Becquerel, billions of billions of times smaller than the atom. To make the comparison vivid, Becquerel likened the electrons in an atom to a swarm of gnats gravitating about in the dome of a cathedral.

WIND AND PLANTS

Experiments of German Professor Show Interesting Facts

A rather surprising degree of influence of the wind upon plant growth and crops was shown by the experiments of Dr. Oscar Bernbeck, a German professor of agriculture. Severe gales tended to produce deformity, giving a twisted and knotty shape to twigs, and ordinary winds diminished the energy of growth of sprouts through the increase of transpiration and alteration of circulatory conditions, and had a drying effect that in some cases caused serious injury to both soil and plants.

Under a wind of thirty-three feet per second, the ground lost three or four times as much water as on protected land. On ground sufficiently moist, strong sprouts were but little affected, but on some soils the growth with no wind was three times as great as with a wind of thirty-three feet per second.

It was evident that the usual moderate wind of Germany—ten to twenty-five feet per second—may lessen the yield of exposed land more than half.

Protection is to be sought by various kinds of wind shields, such as walls and hedges, and especially by planting forests on neighboring hills.

Valuable Fisheries

With respect to the fisheries of Canada, it may be surprising to some to be told that since 1870, the first year for which figures are available, Canadian fishermen have taken from the seas, rivers and inland waters of this country, fish valued at nearly a billion dollars, the exact figures being \$829,910,756.

Many Telephones in Toronto

Toronto has 120 telephones for every 1,000 of population as compared with 105 in New York.

A free telephone office for the use of pilots and ships' officers has been opened on Platte Fougère, the untended lighthouse guarding the rocky approach to St. Peter Port, Guernsey. The instrument, which calls up Guernsey, is gained by climbing a forty-two rung ladder.

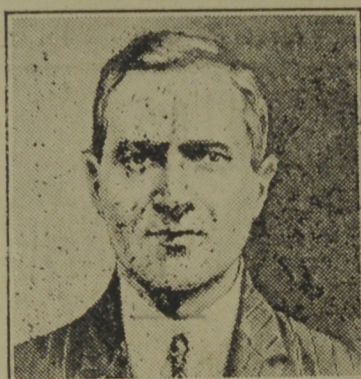
Cook's Cotton Root Compound.

A safe, reliable regulating medicine. Sold in three degrees of strength—No. 1, \$1; No. 2, \$3; No. 3, \$5 per box. Sold by all druggists, or sent prepaid on receipt of price. Free pamphlet. Address: THE COOK MEDICINE CO., TORONTO, ONT. (Formerly Windsor.)



PAIN NEARLY DROVE HIM MAD

Suffered Horribly Until He Turned To "Fruit-a-tives"



J. A. CORRIVEAU

DRYSDALE, ONT., June 15th, 1913

"I am a general storekeeper at the above address, and on account of the great good I have experienced from using 'Fruit-a-tives' I recommend them strongly to my customers. They were a great boon to me, I can tell you, for about two years ago, I was laid up in bed with vomiting and a terrific pain at the base of my skull. The pain nearly drove me mad. Doctors feared it would turn to inflammation of the brain but I took 'Fruit-a-tives' steadily until I was cured. I have gained fifteen pounds since taking 'Fruit-a-tives' and I verily believe they saved me from a disastrous illness."

J. A. CORRIVEAU.

For Headaches, Neuralgia, Rheumatism and other diseases arising from an impure condition of the blood, 'Fruit-a-tives' is invaluable and infallible. 50c. a box, 6 for \$2.50, trial size, 25c. At all dealers or sent on receipt of price by Fruit-a-tives Limited, Ottawa.

SPOTS ON THE SUN CAUSE TORNADOES

Sun Spots Bring Changes of Temperatures Which Often Mean Storms on the Earth

Investigations at the Santa Clara University, California have proven to the satisfaction of weather experts that sun spots are responsible for great storms on this globe. They cause changes of temperature which affect the earth's atmosphere where it is most sensitive—at the equator and the poles. This, in turn, starts a whirl of air that develops in speed—and you have a great storm.

A sun spot has instant effect on two currents of air or whirls in the air, one from the north pole going south and one from the equator going north. The storm is the battle between these two currents when they meet. That battle may take place so high in the air that there is little or no effect felt on the surface of the earth. Or they may meet on a battle plain near to us and a violent storm—generally of tornado tendencies—ensues.

There are two general storm paths in the world—one north and the other south of the equator. The northern path starts at the equator and moves northward so long as it remains south of the 30th parallel. Once across this line it turns and travels northeast until it spends its self or reaches the polar regions. The same condition holds good with the southern path, except that the original direction is southeast and the change is to the southwest.

Sunspots having started air whirls from both ends of the path, the tendency of the southern whirl, being warmer, is to rise and of the northern whirl to say close to the surface. If the northern current is thick enough as it usually is in the winter time, the effect of the southern current will be lost. Anything that will send the southern current higher into the air will shield the country directly in front of it from the violence of the change of atmosphere it causes. Thus a mountain range will sometimes shoot the disturbing element so high that while a severe storm will take place on one side of the mountains, the other side is not affected at all. A long stretch of flat country, however, will permit this southern current to settle down, if it happens to be very heavy, and so get closer to the earth. This explains the tornadoes and blizzards which occur in Manitoba and Saskatchewan.

The great lakes serve as a deflector of the currents in this country because of the excess of moisture in the air over these great bodies of water and the consequent heaviness of the atmosphere at these points. For that reason the storms on the lakes are greater and more frequent in winter than in summer because the northern current, which freezes and removes this moisture, has the easier time. The southern current being warmer and lighter naturally passes over the lakes at a high altitude, although, of course, it sometimes creates big disturbances. There are exceptions to these conditions, of course. These are caused by purely local disturbances of the atmosphere which must be reckoned with to produce certain effects—which might change entirely the character of the effect of the battle of the upper air currents for supremacy, causing a severe storm or no storm at all.



Wood's Phosphodine.

The Great English Remedy. Tones and invigorates the whole nervous system, makes new blood in old veins, cures nervous debility, mental and brain worry, despondency, loss of energy, palpitation of the heart, failing memory. Price \$1 per box, six for \$5. One will please, six will cure. Sold by all druggists or mailed in plain pkg. on receipt of price. New pamphlet mailed free. THE WOOD MEDICINE CO., TORONTO, ONT. (Formerly Windsor.)

THE ANIMALS' HEALTH

Dwellers in the Toronto Zoo Make Good Patients

"A long way the healthiest animals here," said Mr. F. Goode, superintendent of the Riverdale Zoo, Toronto, "is the elephant. We have had him about ten years, and she has only been sick or sorry once in the last five years, and then she had only a slight cold."

Speaking generally, Mr. Goode was of the opinion that the denizens of the Zoo made good patients. The great majority of them, he was convinced, are more insensible to pain than are human beings. And they have nothing like the same apprehension of death or suffering. To this rule, however, he made some exceptions. A sick monkey, he said, was one of the most piteous sights of the world. To see a monkey die was piteous in the extreme. It showed just the same kind of feelings as a human being does.

"I should say that the leopard is the most delicate of the animals we have here. He has a shorter coat than either the lion or the tiger, and a cold wind affects him. We lost a leopard two years ago from pneumonia. That is really the chief disease of which we stand in dread. On the whole we are extremely free from illness at the Zoo."

"Black and brown bears give very little trouble. They are naturally strong. And when they are feeling not quite up to the mark, they will drink cod liver oil freely out of a cup."

"Beavers are healthy, as well as industrious. But they fight like fury. Where a male and female are together, and have a family, and found a colony, they are all right. But put in a strange beaver among this colony, and they will kill him inside of twenty-four hours. They will cut his tail off, and tear holes in his back. And all this will be done under water. Beavers can stand any amount of pain. I have known a beaver badly mauled, and gangrene set in until half of him was really dead. And yet he would still keep on diving."

A Winged Ambulance

A hunter, of North Battleford, told a story about a goose which he wounded and which was apparently about to fall to the ground. It was actually supported by two of its mates, who, upon seeing the predicament flew underneath the bird in distress so that their wings on the upward flap would reach the injured member of the flock. In this way, remarkable to relate, the three geese—the ambulance and the patient—reached the river in safety.

While the hunter could easily have picked off the whole three geese with the second volley, he was prevented from doing so by the remarkable demonstration of brotherly kindness in the care of the injured goose. The ingenious method which was employed by the members of this ambulance corps seems to prove conclusively that sometimes a goose is not a goose!

"In every big enterprise there comes a critical time when everything depends upon one man; strong as the structure seems, he's really supporting it. You see the whole thing depends on credit and confidence. An ill-considered word, a little unfriendly shove, and down comes the whole works. Then some financial power steps in, reorganizes the wreckage, and gets the result of all the other fellow's efforts, for nothing."—From The Iron Trail by Rex Beach.

"The narrow neck of the pass opened and descended into a valley half a mile wide, and perhaps twice that in length. It had apparently unscaleable slopes of weathered rock leading up to beetling walls. With floor bare and hard and white except for a patch of green near the far end, it was a lurid and desolate spot, the barren bottom of a desert bowl."—From a descriptive portion of "Desert Gold" by Zane Grey.

"This is to warn you, friend of my youth, against excessive credulity. When a fellow tells you that the cartridges in your revolver are damp, however great your confidence in that fellow may be, never allow yourself to be taken in. Fire first, and if the fellow hops the twig you will have acquired the proof that the cartridges are not damp."—From "The Confessions of Arsene Lupin" by Maurice Leblanc.



A REAL ROMANCE OF THE ROCKIES

THE CHALICE OF COURAGE

By CYRUS TOWNSEND BRADY

A story you will read with breathless interest

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WANTED—Boys and girls to sell novelties just honest and ambitious who wish to earn from \$5.00 to \$12.00 per week. Write O. D. Ferdiand 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. Supplies furnished free. Men wanted everywhere.

NATIONAL SUPPLY CO., Windsor, Ont.

ANNEXATION

Canadian Home Investment contracts wanted. P. K. Park, Carter-Cotton Bldg., Vancouver, B.C. 414—Dec. 22.

NOTICE

On and after Monday, December the First, the Dairy Business known as the West End Dairy will be conducted from the farm at Lower St. Mary's instead of from the Queen street store as formerly. The telephone number is 383-11 and orders for milk or cream will receive prompt attention.

For Sale

The undersigned offers for sale his desirable property on the Killarney road, St. Mary's, consisting of a ungalow and one half acre of land more or less. Is admirably adapted for a summer residence. Good water supply. Will be sold at bargain. For terms and other particulars apply to

CHARLES L. DUPLISEA, Court House Square

Dec. 17, 1913

Water Consumers.

Consumers of water will take notice that their water rates are now due and in order to take advantage of the discount these rates must be paid in not later than the 31st day of December instant.

City Hall December 17th A.D. 1913

G. R. PERKINS, City Treasurer

Births, Deaths, and Marriages York County

Physicians, Clergymen and others required by law to make returns of Births, Deaths and Marriages for York, are requested to send same in, before the first day of January next. Division Registrars Office, Fredericton, 19th Dec. A.D. 1913.

HENRY S. RAINSFORD, Division Registrars, York.



Pure Bred Bulls for Agricultural Societies

Six Registered Holstein Fresian Bulls, sired by a bull which won 1st place at the Dominion Exhibition and whose dam is an advanced register cow of show type who has been several times Grand Champion of the Maritime Fair. These young bulls are all out of large sized heavy producing stock and will be given free to any agricultural society in York for three years.

For further information and particulars of stock apply

WALTER LIMERICK Sprucewood Stock Farm Fredericton

Electric Restorer for Men. Phosphonol restores every nerve in the body to its proper tension; restores vim and vitality. Premature decay and all sexual weakness averted at once. Phosphonol will make you a new man. Price \$3 a box, or two for \$5. Mailed to any address. The Scobell Drug Co., St. Catharines, Ont.

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