

## THE FIRST STAGE OF GATINEAU DEVELOPMENT COMPLETED

Ranking as one of the great industrial achievements of history, the development of the wood and power resources of the Gatineau River in the Province of Quebec by Canadian International Paper and Gatineau Power Companies has now reached the completion of its first stage with the opening of the Pagan hydro-electric plant. Within three years three large sites on the river have been developed with hydro-electric plants, a storage dam has been built above them to regulate the flow of the river, and a newsprint paper mill and a fibre-

board plant have been constructed to utilize the pulpwood resources of the river valley. Two-thirds of the available head of the entire Gatineau River has been developed in the hydro-electric stations and practically all of the remaining head capable of economical development is controlled by the company.

Rising in northern Quebec, the Gatineau River flows southward 275 miles through a well-timbered country to its confluence with the Ottawa River opposite the city of Ottawa. The Gatineau River has a drainage

basin of 9,600 square miles and is the largest tributary of the Ottawa.

Two of the hydro-electric developments on the Gatineau River—at Farmers and Chelsea—are within six miles of the City of Ottawa and have been in operation over a year. The third station—at Pagan, twenty-five miles further upstream—came into operation on October 1 when it commenced delivery of 80,000 horsepower to the Hydro-Electric Power Commission of Ontario. The power is being sent over a 220,000 volt transmission line 230 miles long and is being distributed by the Commission in the Toronto area to supplement the power now being supplied by Niagara Falls.

The combined capacity of the generators in these powerhouses—now running or in process of installation—is 436,000 horsepower, one and two-thirds times the developed capacity of the Muscle Shoals project. Space is provided in the powerhouses for generators totaling an additional 126,000 horsepower.

Ninety miles above the Pagan development a storage dam has been built by the company—under the direction of the Quebec Streams Commission—for the seasonal regulation of the flow of the Gatineau River. With a storage capacity of one hundred billion cubic feet, the reservoir formed by this dam ranks as one of the largest artificial storage reservoirs in the world.

One of the remarkable features of the construction of the Gatineau plants is that the aggregate actual cost of the entire system will vary from the estimates by less than one per cent. The developments, too, have been completed within the time originally scheduled.

Two miles below the confluence of

the Gatineau and Ottawa Rivers is the Gatineau newsprint paper mill with a capacity of 600 tons of paper a day. The four paper machines in the mill are the largest single producers thus far installed in the world. Each machine is designed to produce a sheet of newsprint paper over twenty-one feet wide, at the rate of twenty feet a second.

One of the features of the mill is that every application of power in it is electric. The machines are electrically driven with direct drive, and steam required for cooking and drying is supplied from electric boilers. From the Chelsea and Farmers hydro-electric plants is supplied the electric power required to operate the mill.

On the Gatineau River, Canadian International Paper Company has assembled 7,140 square miles of timbers, an area three and one-fourth times that of Prince Edward Island. It is estimated that these woodlands contain a perpetual supply of wood not only for the present capacity of the mill, but also for further expansion.

Adjacent to the Gatineau mill, and also using electric power from the Gatineau River stations, there has been built a plant of an initial daily capacity of fifty tons of fibreboard. The mill is the largest of its kind in the British Empire, and its product is used for building and insulating purposes.

The Gatineau River power plants are owned by Gatineau Power Company, one of the principal power units in the International Paper Company system. Through its rapid construction and expansion program, Gatineau Power Company in a few years has become one of the largest hydro-electric power producers on the continent. Its plants are within economic

transmission distance of the largest markets for power in the Dominion of Canada, and are supplying energy for lighting purposes, electric railway operation, and for the manufacture of a variety of products.

## LADY ASTOR HANDS ONE TO SCOFFERS

London, Nov. 8.—Lady Astor today silenced efforts of fellow members of parliament to jibe at her because of her enthusiasm for Herbert Hoover and prohibition. "If Americans believe in prohibition why don't they bring their prohibition principles with them when they come to England," she was asked. Lady Astor replied, "Why don't Englishmen take their morals with them when they go to Paris?"

### AUTUMN

The leaves drift slowly downward  
And the air is warm and sweet  
And I want to go and wander  
Where the far horizons meet;  
Where the earth runs to the sky line  
And the misty skies are blue  
And there is no care or sorrow  
I would wander, Love, with you.

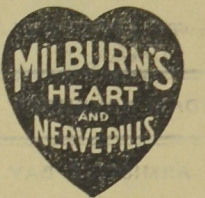
The tide of summer turned at last  
The year is at the fall  
The brown leaves slowly dropping  
Seem to whisper: "Love is all—  
Autumn is the year's fulfillment."  
And my heart says that is true  
Through the autumn of our lifetime  
I would wander, Love, with you.

—MARGARET H. TOMPKINS in  
Detroit News.

## Heart Palpitated Nerves Bothered Her Sleep Was Broken

Mrs. Fred A. Pugsley, East Southamptons, N.S., writes:—"I was bothered very much with my nerves and palpitation of the heart, and my sleep was broken at night."

I decided to try



and after I had taken six boxes I found that they had done me so much good I will gladly recommend them to all those who are troubled with sleeplessness caused by their heart and nerves."

Price 50c. per box at all druggists and dealers, or mailed direct on receipt of price by The T. Milburn Co., Ltd., Toronto, Ont.

## FORMER U.N.B. PROFESSOR A COLLEGE HEAD

(Halifax Chronicle.)

Dr. Frank P. Day whose appointment as President of the Union College at Schenectady, is just announced, is maintaining the Nova Scotian tradition for leadership in educational work, and the fame of this little Province as the nursery of College Presidents for not only Canada but the United States.

President Day is a product of Picton Academy which stands pre-eminent for its long roll of distinguished graduates, and of Mt. Allison University from which he received his Bachelor's degree in Arts in 1903. Two years later he was elected as a Rhodes Scholar and completed the course at Oxford for the degree of Master of Arts. Subsequently he pursued post-graduate studies at Berlin and on his return to Canada received an appointment at the University of New Brunswick as Professor of English. He was later for a period of nine years on the staff of the Carnegie Institute of Technology at Pittsburgh where he was engaged when the Great War broke out.

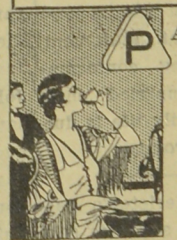
Returning to Nova Scotia he threw himself into the work of recruiting and became one of the group of brilliant leaders who organized the Nova Scotia Highland Brigade. In both the 185th and the 85th Battalion Col. Day did excellent work and was one of the most popular officers of the Brigade which left Halifax in 1915.

After demobilization Col. Day returned to the Carnegie Institute as Professor of English. Two years ago he became Principal of Swarthmore College at Swarthmore, Pennsylvania, and his call to the important position of President of the institution at Schenectady is a further step in his steady advancement.

Many Nova Scotia comrades and friends who have been associated with Col. Day in war and in peace time, appreciate his many qualities and are acquainted with his fine literary gifts will join in congratulating him upon the achievement of his latest distinction.

The Family Herald and Weekly Star of Montreal with its wonderful improvements is recognized as the greatest money maker for farmers in Canada, while its magazine section is a gem unrivalled.

## A Substitute for Dieting



ARTICULAR people do frown on those who "pick and choose" at the table. A "diet" is often embarrassing, and always a hardship. And nine times out of ten it is unnecessary!

Try a simple experiment; see if that "indigestion" doesn't disappear from the very hour you take Pape's Diapepsin. To restore good digestion you must eliminate excess acid. A tablet of "Pape's Diapepsin" after eating or when pain is felt will instantly neutralize the acidity and banish all digestive trouble and pain.

So, do buy a 60-cent package of "Pape's Diapepsin" today. This not only means instant relief, but by soothing, healing and strengthening your weak and disordered stomach a little "Pape's Diapepsin" keeps your digestive system healthy and helps to prevent various disorders. You may have decided that nothing could give you a "strong" stomach; just make the diapepsin test!



## Sour Stomach

Sweetened instantly

Just a tasteless dose of Phillips' Milk of Magnesia in water. That is an alkali, effective, yet harmless. It has been the standard antacid for 50 years among physicians everywhere. One spoonful will neutralize at once many times its volume in acid. It is the right way, the quick, pleasant and efficient way to kill the excess acid. The stomach becomes sweet, the pain de-

parts. You are happy again in five minutes.

Don't depend on crude methods. Employ the best way yet evolved in all the years of searching. That is Phillips' Milk of Magnesia!

Be sure to get the genuine Phillips' Milk of Magnesia prescribed by physicians for 50 years in correcting excess acids. Each bottle contains full directions—any drugstore.

### Even Your Daintiest Things Last Longer

**SO KIND TO CLOTHES**

CLOTHES don't get too grimy for the New Gainaday Electric Washer. Yet, with all its capacity for thorough cleansing, the New Gainaday is so gentle with clothes that even your daintiest things last longer when they are regularly washed in it.

Powerful water action alone, in a tub that hasn't a single moving part to wear or tear your clothes, is the secret of New Gainaday efficiency. Added to this is mechanical correctness and simplicity throughout, guaranteeing trouble-free service for years to come.

Let us do your next week's washing the New Gainaday way in your own home—no obligation—convenient terms.

*The New*  
**Gainaday**  
Electric Washer

**Gainaday Features**

- Faster Washing
- Cleaner Washing
- Safe for Fine Fabrics
- One-Piece Copper Tub
- Extra Large Capacity
- Thermos-Type Cabinet
- Only Five Moving Parts
- Timken Bearings
- All Gears Enclosed
- Balloon-Type Rolls
- New Type Drain
- Self Cleaning

**Maritime Electric Company Ltd.**  
of the ASSOCIATED SYSTEM  
426 QUEEN STREET FREDERICTON, N. B.

