WATER POWERS OF CANADA REVIEWED IN FULL REPORT

Leo. G. Denis and A. V. White Have Submitted Results of N. TORONTO CARRIES Investigations to Commission of Conservation.

with the field and power restrictes of Catethe foundation of the State of the Sta

water resources. It is necessary, however, to get an accurate idea of what these resources are worth. It is pointed out that the water power available bears no necessary relation to the water area. A serious note of warning is sounded in this connection. As an illustration the case of Lake Abitibitis taken with nearly 400 square miles side and 18,500 on the United States side of Niagara, with the Eric Canalina only 75 per cent. of this area of water, but that state has installations of water, but that state has installations of 200,000 horse power. To supply so much power would drain Lake Abitibiting try in a month. And what is true of water areas is correspondingly true of water areas. The problem of estimating water powers is gone into carefully and some obvious but frequently disregarded points emphasized. The great point is that the minimum flow of the stream during the year is the only basis of estimating the maximum thous of the stream during the year is the only basis of estimating the maximum thous first the stream during the year is the only basis of estimating the maximum thous of the stream during the year is the only basis of estimating the maximum. he stream during the year is the only feet. basis of estimating the maximum power to be developed. Storage facili-ties may help to raise the minimum flow, and in some cases where certain types of industries permit it, a greater amount of power than the annual minimum might be used for nine or ten months in the year, while for the remaining time the supply had fallen away. It is thought that the available water power is much over-estimated. The conclusions arrived at in this chap-

primarily upon precipitation. Other interests such as municipal and domestic water supply, navigation, agriculture and irrigation are likewise dependent upon the same source. The subject of water powers, therefore, can lost the property considered with the proper not be properly considered without Franchises have been granted on the making fair allowances for the demands of the other interests that have instead of millions, about half, and Second.-Knowledge of the circum

stances intimately associated with the water powers is essential to an intelligent classification of them. It is as unreasonable not to differentiate between water powers as it would be not to differentiate between timber tracts, ndneral lands, or the items of any other natural resource varying ir quantity, quality and situation.

Accurate Data.

Third.—The accuracy of published data relating to water powers must be accepted with qualifications unless these data are based upon carefully ascertained facts obtained in the field. Fourth.-General statements, so commonly made, of vast numbers of existent water powers are misleading, and tend to disguise the fact that the number of water powers in Canada, at present desirable from an economic stand-

Fifth.-Reliable data upon waterpowers have definite characteristics. At the present time there is urgent maps and numerous photographs of need for such data and for detailed cataracts, power installations and po-

topographical maps.

Should Be Sareful. Sixth.—Certain steps are necessary to secure water power data that are thoroly reliable. Motoring stations should be established at carefully seected points on the principal rivers and streams and accurate cross sections of the river beds made at such should be established. A substantial Dominion customs appraiser, took place gauge should be erected in an accessshould be established. A substantial

With the present coal strikes and rumors of coal strikes, which are the worst kind of industrial and economic war, nothing coald be more timely than the exhaustive consideration of the fuel and power resources of Canada. This has been brought before the nation in the 400 page report of Thus, in the course of a very few

Details of 28 power companies are given, some active, many holding charters and trying to assure themselves of water power privileges. Since April, 1906, when 12,206 h.p. were developed at Niagara, the dayslowment residue. Niagara, the development rose in four years to 46,613 h.p. It is estimated that instead of the millions of horsepower frequently spoken of, the low water discharge would give about 2,765,000 The conclusions arrived at in this chapter are of lasting and general interest.

They are as follow:

First.—Water power is dependent primarily with properties of the conclusions arrived at in this chapter.

They are as follow:

They are as just claims upon water as a natural much the better half, of Canada's usable share of Niagara power has been

WEST TORONTO.

Day's Doings Out in Big Western

WEST TORONTO, March 17.—(Special.)
—The death occurred this morning at his home in the old Avenue Hotel, at the corner of Dundas street and High Park avenue of Mr. Harvey Jackson. Mr. Jackson just moved into the building a few days ago with his son, who is starting a new grocery business. Deceased was 72 years of age and leaves a grown-up family. Death was caused by a paralytic stroke. The remains will be sent to his late home at Harrowsmith, Ont., to-mor-

stroke. The remains will be sent to his late home at Harrowsmith, Ont., to-morrow for interment.

Altho all the votes on church union have not yet been returned at the Davenport Methodist Church, the pastor, Rev. John Locke, reports that, so far, the ballots stand five to one in favor of the measure. An address on the subject was delivered at the Lenten evening service held in the church to-night. This week is to be a busy one in the Davenport Church. On Tuesday evening the Delta Alpha Society hold their annual St. Patrick's social and on Thursday the annual combined concert

sary one, the occupants being engaged in drying out the cellar. The death occurred last night of Mrs.

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Many municipalities, the report proeeds, in Ontario, are now dependent for their supply of electricity upon a single plant at Niagara Falls. Any single plant at Niagara Falls. Any remaining power site there, or upon the Niagara River and westward upon the Niagara escarpment, should never be permitted to be developed, except upon such terms and conditions as will absolutely and perpetually provide an alternative source for a cheap and sufficient supply of electrical energy for the municipalities of Ontario that are dependent for their electricity upon Niagara power. This provision should be made in view of a temporary disabling of the plant upon which the municipality of the plant upon which the manual St. Patrick's social and on Thursday the annual combined concert of the choir and orchestra will be given in the church. Richard Badgerow died at his home, 36 Kenenth avenue, this morning, from blodo-poisoning. Deceased was 41 years of the choir and orchestra will be given in the church. Richard Badgerow died at his home, 36 Kenenth avenue, this morning, from blodo-poisoning. Deceased was 41 years of the choir and orchestra will be given in the church. Richard Badgerow died at his home, 36 Kenenth avenue, this morning, from blodo-poisoning. Deceased was 41 years of the church. According to the church and orchestra will be given in the church. Richard Badgerow died at his home, 36 Kenenth avenue, this morning, from blodo-poisoning. Deceased was 41 years of the church. Richard Badgerow died at his home, 36 Kenenth avenue, this morning, from blodo-poisoning. Deceased was 41 years of the church. Richard Badgerow died at his home, 36 Kenenth avenue, this morning, from blodo-poisoning. Deceased was 41 years of the church. According to the church. Richard Badgerow died at his home, 36 Kenenth avenue, this morning, from blodo-poisoning. Deceased was 41 years of the church. Richard Badgerow died at his home, 36 Kenenth avenue, this morning, from blodo-poisoning. Deceased was 41 years of the church. According to the ch be made in view of a temporary disabling of the plant upon which the municipalities are now dependent, in view of the future expiration of present conroint, is much smaller than is generally tracts, and in view, also, of the insupposed.

of the future. The peport is fully illustrated with cataracts, power installations and potential water powers. The lists and descriptions given of these are very full and the volume furnishes a complete guide to the phases of the hydroelectric subjects with which it deals.

J. C Boughner Burled.

BRANTFORD, Mar. 17 .- (Special.)-Permanent bench-marks The funeral of the late J. C. Foughner. place at each gauging or metering by a very large concourse of friends, station. Carefully conducted dis-charge measurements could then be staff. Ottawa; Contarlo Bowling As-taken from time to time during the sociation, local Masons and Oddfellows.

West Toronto North Toronto

To-morrow night at Ravina Rink the a repeat performance of the Bedford ctoria Church hockey team will wage Park citizens' first effort. Victoria Church hockey team will wage war on the Victoria O.H.A. team, the losers being held responsible for the financing of an oyster supper to both victors and vanquished. Art Gibert and E. Alton will coach the O.H.A. and church teams, respectively, and Cal. McKee and F. Bond will be the rival captains.

Park citizens' first effort.

WHITEVALE.

What's Going on Down in the Hub of the Township.

WHITEVALE, March 17.—(Special.)—J. Toronto and Niagara Power Appeal to Be Fought-Sudden Death

SUDDEN DEATH IN EGLINTON.

Mrs. Alfred Sellars of Sherwood Ave.,

Was III Only an Hour.

Death came very suddenly to Mrs. Alfred Sellers of Sherwood avenue at an early hour oh Sunday. Mrs. Sellers, who has been in good health, on Saturday was seized with a severe pain in the back of her head, and Dr. Jeffs was at once telephoned for, but before his arrival, which was in about an hour, the young woman was dead. The deceased was only 28 years of age, and leaves a husband and a little son, the latter about four years old. Mr, and Mrs. Sellers have resided in North Toronto about two years, coming from England, and the greatest sympathy is expressed for the bereaved. The funeral arrangements are not yet completed.

Apoplexy is given as the cause

concert on Friday night proved to huge success. The room seated it 200 and was filled to the doors, the ventilation was perfect. Mayor be a huge success. The room seated about 200 and was filled to the doors, while the ventilation was perfect. Mayor Brown filled the position as chairman and delivered a very appropriate address at the opening, and later on the meeting was addressed by Mr. Palmer of the school board. sophia Jones at her house, 2120 Dundas school board.

The efforts of the performers thruout were well received and appreciated, after which every one went home happy and with a feeling that will heartly welcome at 3.20 o'clock.

WHITEVALE, March 17 .- (Special.)-J.

(Special.)—In the Methodist Church to-day ballots were distributed to test the feeling with respect to union. Next Sur-day the control of t

PLAGES UF

Ontario Educational Association Convention, Which Will Be Held in Toronto During Easter Week, Will Be Addressed by Some of the

Best Speakers in Dominion.

The Ontario Educational Association which holds its fifty-first meeting in To ronto during Easter week (April 8 to 11). is making this year an interesting demany years past it has had as the chief speakers at its evening meetings distinday they will be returned.

Mrs. McComb, mother of Rev. Father
McComb, is recovering nicely from a these visitors have been cordially welsevere fall, in which her thigh was incomed, and while their remarks have been much appreciated, the association has decided to give this year the places of honor on its program to Canadians.

sented to address the association on "Education in Relation to National Character," while Principal MacIntyre of the Winnipeg Normal School will bring s

acter," while Principal MacIntyre of the Winnipeg Normal School will bring a message from the western provinces and will deliver an address on the topic, "An Efficient Education,"

Additional interest is given to the program by the fact that Dr. Henry F. Cope of Chicago, secretary of the Religious Education Association, and a speaker of note, has consented to be present and to give two addresses—one before the training department on "The Wider Aspects of Religious Education," and one before the general association, on "The Public School as a Factor in the Development of Religious Character."

The president for the present year, J. H. Laughton of Parkhill, represents the public and high school trustees of the province. This emphasizes the scope of the activities of the association and the representative character of its membership. The board of directors is anxious that the attendance at the forthcoming meeting shall be the largest in the history of Toronto is co-operating with the local committee to provide ample accommodation for the meetings of the large number of departments and sections into which the association is now divided.

The secretary, R. W. Doan, 216 Cariton street, Toronto, will be pleased to send copies of the program to all who may be interested and give any assistance within his power to those who are planning to attend.

THE COUNTESS OF WARWICK.

THE COUNTESS OF WARWICK.

Does it not seem strange that whenever a movement is launched for the benefit of mankind, socially or morally, the promoter is lauded to the highest pinnacle, and his name goes forth as a great benefactor, but when a woman comes forth in a similar movement for women and girls she is considered out of her sphere,

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Capt, Hardin Crew

SHELBURNE. (Can. Press.)-O owing disasters in years was that survivors of the schooner Patricia utes after midnig knocked at the chocked at the chocked at the of twenty who haburne in the morthe schooner har Rock, two miles captain William his crew had per sea.

The Patrician is burne on Thursde ing she sailed fro tinue fishing. Cared to run back to ter as the south become fierce. It thick weather Care a mistake in his Lockport buoy for ing buoy. When error it was too is crashed on the mile back of Duli miles from Jordar tion of the school stantaneous. Aft opened up and wimpact on the reinfact of the reinfact of the reinfact of the school stantaneous aft of the reinfact of the reinfac