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LOCAL AGENTS

LINDSAY, ONT.

### Report of Sanitary Expert Weston

(Continued From Page 1.)

sent filter and pump well were used as clear water basins, they would hold 93,200 gallons when drawn down to 4 feet below the maximum flow line. The sbm of these two volumes would be 234,200 gallons-enough for a fire of nearly two hours' duration with eight hose streams in fore, to provide a plant of the same

Were it not for the bad odor of the water and the absence of oxygen from it during the summer, the slow filters the river by gravity. This, howeved water difficult and purification incomplete. Furthermore, the construceffect complete purification The pumps should be in duplicate,

of a rated capacity of 500,000 gal- COST OF CONSTRUCTION AND lons per diem each. For this purpose the writer would recommend low lift motors. About 2.5 h.p. would be re- struction and operation for both sys- rates must be taken into consideraquired for the rapid filters, and whereas it costs about \$168 per h.p. per an- English filters cost more to construct quired. num, exclusive of attendance and capemploy electric power at the rate of on the filters. It would be more difficult to do this with steam engines. on account of condensation in the It would be wise to provide an em-

ergency by-pass so that one of the filter in Canada, and the mechanical high lift pumps could be used to sup- filter plants at Deseronto, Renfrew, ply the filters, should the electric and Dunnville, Ontario, and Longue-The aerator recommended is a sim-

ple concrete basin 20 feet long by 10 basis for estimate. feet wide by 4 feet deep, with a simple device for spraying the water as it tal cost of \$18,216 for slow filters, falls into it. The water level in the aerator and in the filter are the same, less friction in the pipe between the two structures.

ENGLISH OR SLOW FILTERS . The filters mentioned herein are rapid filters. similar to those built elsewhere, with a few improvements and curtailments To furnish 500,000 gallons of filt- ing boiled. Even where the supply of cost suggested by past experience. ered water per diem will require an is abundant, if there is any reason In effect they are concrete basins outlay of less than 1 cent per thou- for suspicion as to purity, the matwith an arched concrete roof. On the sand, or \$9.78 per million gallons ter should be settled at once by anfloor of the basin are laid underdrains This would be an increase of 14 per alysis. The chemical department eithof vitrified tile. Over the tile there cent. on the cost of water per mil- er of the O.A.C., or of the Dominion is graded gravel, and over the gravel lion gallons, over the cost in 1902. Experimental Farm, Ottawa, will be 40 inches of sand. The depth of wat- Including interest, sinking fund and glad to test, free of cost, any sam-

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er above the sand is 4 feet. The area of sand surface is 0.25 acre, divided into two beds. This provides for a rate of filtration of 4,00,000 gallons per acre per diem. This rate is onethird higher than usually designed for should be equal to that of the but this higher rate, with the saving pumping machinery. This will suffice in cost, is permissible at Lindsay on account of the character of the unfilt-

and the topography about the pump-The filtered water passes through devices for regulating the flow thereof and goes thence to the clear water basin. When the filters become clogvision. It would seem wise, there- ged, they are scraped and the removed sand washed. The sand is replenished annually. These filters will de--namely, 1,000,000 gallons per diem. liver from 10,000,000 to 15,000,000 LOW LIFT PUMPS AND AERATOR causing the whole area to be scraped not oftener than once every three weeks at present rates of consump-

The filter would require no extra might be built so as to be filled from attendants, but laborers would have to be hired for scraping In small er, would make storage of the filter- plants this work is usually performed by the pipe-laying gang. Mr. Weston then gives description

tion cost of a structure below water of mechanical filters which he does to pump all the water through an "The Scugog water would be difficult s13.40 per million gallons, on a Township of Ops passed away on and came to the township of Cavan aerator during the warm months, to to treat and one extra filter attend- basis of 500,000 gallons per diem. ant would be required.

MAINTENANCE

tems of purification. In a word, the tion should more revenue be reare based on U.S. practice, as outside it is not recommended. of Victoria, B.C., the writer knows of the existence of no large English nil, Quebec, are too small and of too temporary construction to form

These tables follow and show a toand of \$15,000 for rapid filters, a cost of water per million gallons when operated at half rated capacity, or 500,000 gallons per diem, of \$9.-78 for slow filters, and \$13.40 for

FINANCIAL

maintenance, it is estimated that an ples of water sent for the purpose. increase of \$1,788.00 in revenue would have to be provided. might be arranged for from four

sources (a) Annual net profit. (b) Normal increase in revenue. (c) Increase in revenue due to improved quality of the water.

(d) Increase in rates. meter rate is 4 cents.

increased cost of filtered water.

(b) The construction of a purifica-

RECOMMENDATIONS.

The continued rigid inspection

the premises draining into Scu-

The writer would recommend,-

tion plant consisting of aerator and English filter, with the necessary pumps and storage basins, the whole to cost less than \$19,000, for conper thousand galtons.

treezing weather begins.

(d) That the contract for the concrete work of the filter proper ba awarded to a contractor who has had experience with this class of construc-This is important, because slight defects of construction might defeat in part the end for which the filter would be constructed. Much of the construction work, especially the collection of sand and gravel and the laying of the piping, could be carried on to advantage by yourselves. SUMMARY.

9400 in 1920. 2. An allowance of 80 gallons of Women's part in country life was water per capita on an average will dealt with in an interesting manner be adequate for the supply of the by Mr. William Hays, Assistant Sec-

necessary to have enough water av- most important unit in modern civiailable to supply 200,000 gallons in lization, because it was from it that

able in appearance and is slightly with the finishing touches of an in-

Lindsay is somewhat above normal. tant when there would be such im-This is believed to be due indirectly provement in the country home that to the bad appearance of the water the functions of the wives and mothsupply, which increases the con- ers would be quite changed from sumption of well and spring waters what they had been in the past. In of suspicious quality; possibly, to a brief reference to religious educaa small extent, to the pollution of tion, he suggested that as the State the water supply itself.

filtration is the only remedy for this If, however, parents were willing,

present supply is filtered. Most of the religious side of their training. the water is pumped directly from the river to the standpipe. 8. Two types of filter may be

used, both in conjunction with aer-(a) English or slow filters.

(b) Rapid filters, using sulphate of alumina as a coagulant. 9. The capacity of the plant until after 1920, both for domestic consumption and for fire protection. 10. The character of the water

ing station make low lift pumping through an aerator necessary. 11. English or slow filters should have an area of 0.25 acre. should operate at a rate of 4.000 .-000 gallons per acre in 24 hours. The mechanical or rapid filters should have an area of 360 square feet and should operate at a rate Chicago. He was for a time a memof 125,000,000 gallons per acre per ber of a travelling orchestra, but 24 hours. A coagulating basin latterly had returned to his trade. would be necessary with the rapid He was connected with the Citizen's

cal per million would suffice. purification would cost less than here and the funeral took place on \$19,000, and the mechanical or ra- Tuesday to Riverside cemetery from pid system \$15,000.000 to con- the residence of his brother, Mr. Al-

13. The water from the slow fillevel would be more than of one not recommend on account of extra ters would cost \$9.78 per million built above it. It is best, therefore, cost of operating. He also remarks : gallons : from the rapid filters

14. The Lindsay Water Works are of Mr. Charles Peel, lot 18, con. 10. when young. Here she was married in such good financial condition that increased revenues may be enticipated to pay the greater part of the in-The tables of cost with this report creased cost of operation. In this borhood where he died. Her health was good until recently centrifugal pumps driven by electric gives estimates of the cost of con- connection, the present low water

and less to operate, than do the me- 15. The writer recommends careful ital charges to pump your present chanical filters. The costs of opera- inspection of the watershed and the supply, by steam, it would be far tion are on the basis of a yield of construction of an aerator and Eng cheaper and much more convenient to 500,000 gallons per diem, or half the lish or slow filters, with the necesrated capacity of the devices. On the sary pumps and storage basins. The \$52.50 per h.p. per annum. The mo- basis of 750,000 gallons per diem, rapid system would cost less to contors could readily be fitted with de the cost of water per million gallons struct, but it would require a very vices for maintaining a constant head would be less, - truely, \$8.15 with high grade of supervision to make the slow, and \$11.41 with the rapid its work satisfactory. It would al system of purification. The estimates so cost more to operate. Therefore

### Farm Drinking Water

family, due to typhoid developed from the drinking of impure water conducting the services. from a well, is a warning which should not pass unheiled in any home in Ontario, says The Weekly Sun. In the greater part of the Province wells are now exceedingly low, and when this condition exists the danger of disease caused by the use of impure water is always present. No water should be used for drinking purposes from a well in which the supply is low, without first be-

## Conference in Regard to

Supplies of Books A long conference took place on Decomber 12 between the Minister of Education. Mr. Colquhoun, the Deputy Minister, and Dr. Seath. and the members of the Text Book nutshell. La Grippe and colds are among able man. Mr. Wood, who was born The writer believes that the im- Commission. The consultation, it is the forerunners of consumption. proved quality of the water would so understood, says the Mail and Em- This man had one, his wife had the other. ploy of the province first as a clerk oncrease the revenue that little or no. pire, was with reference to the course Psychine not only cured both but it built in the Agricultural Department. Lathing would have to be provided for to be followed in view of the fact them up so that their bodies are strong ter he was engaged on a number of by increase in the rates, especially if that the interim agreement extending enough to resist disease. All seeds of Government survey parties. He had a floating debt be carried for a year the original contract for the publicaor two. In this connection, the sta- tion of school text-books expires at tistics presented are useful as show- the end of December. Since the ing the revenue to be lower per mil- Text Book Commission has not conlion gallons than that of the other cluded its enquiry it is expected that nine towns studied. Again, it should a temporary arrangement will be be borne in mind that the water made regarding the supply of books rates in Lindsay are very low. The needed until the Government, acting water costs about 7 cents a thou- on the commission's report, will put sand gallons, while the minimum into effect the policy it may decide upon. The report, it is expected will The saving of one death every two be ready for the Government to foryears would more than pay for the mulate its policy in time to explain to the House when it meets.

### THE WORK OF A WOMAN IN COUNTRY LIFE

gog River, especially those immediately above the intake to prevent pollution of the supply.

SHE IS EFFECTI: G CREAT ICEFORMS — CO-OPERATION OF
FARMERS' WIVES WITH HUS-

Guelph, December 12.-That the benefits of the new science of agriculture are not all going to the men was shown this morning, when over struction and engineering, and the three hundred delegates from the vafiltered water to cost less than 1 cent rious branches of the Ontario Women's Institutes met in the Ontario (c) That this plant be constructed Agricultural College Assembly Hall during the low water season. Con- to discuss questions which peculiarly struction should be begun as soon as interest the comen on the farm. This the spring floods are past. The riv- institute, with a membership of 10,er should be drawn down to 1 foot 500 wives and daughters of farmers, above low water two or three weeks is a much more vital organization before construction is begun. Con- than that of the men folk. The restruction should be completed within forms which it has already effected, four months, that the concrete work are merely a foretaste of the revolumay have time to indurate before tion which its promoters hope to bring about on the domestic side of country life through its agency.

Mr. George A. Putnam, the superintendent of the institute, regretted their lack of an official organ. The periodical through which they used formerly to place themselves before the people, ceased publication last year, and he thought their progress would have been greater during the past twelve months if this had not happened. He was not, however, complaining of the growth of the institute; that was perfectly satisfac-The following is a summary of the tory. Many of the branches, he noted, were demanding more scientific 1. It is estimated that Lindsay, teaching at their meetings, a fact, with a present population of about which, he thought, would eventually 7200, will have a population of lead to the lengthening out of these gatherings to four or five days.

retary of Agriculture for the United 3. For fire protection it will be States. He considered the home the a people drew its strength and vigor. 4. The water of Lake Scugog as His ideal of education for country pumped from the river is disagree- women was the consolidated school, stitution like the McDonald Institute 5. Typhoid fever death rate of or did he think the day was far dispaid for the schooling of the people, 6. A combination of aeration and it should have absolute charge of it. their children might be sent to the 7. Less than 10 per cent. of the church schools for a year or rwo for

The possibility of women co operating with their husbands in their work would, he declared, be werth working out. He believed, for instance, that the farmer's wife should | have charge of his books, if for no other reason than that she understood the home life better than any-

### OBITUARY

WALTER COTTINGHAM

Mr. Walter Cottingham, formerly of Lindsay, died in Chicago on Saturday, December 8, after an operation for some stomach trouble. Deceased tingham, and a native of Lindsay. He was a carriage painter by trade, and left here about twelve years ago for filter. About 1.25 grains of chemi- Band while in Lindsay. He leaves two brothers, William and Albert, of 12. The English or slow system of Lindsay. The remains were brought bert Cottingham.

CHARLES PEEL.

One of the oldest residents of the Tuesday, December 11, in the person at the age of 82 years. Increased about fity-four years ago. Her huswas born in Ireland, came to Cana- band survives at the age of 87. They da in 1831, and setered in the neigh- removed to Manvers, near Mount been in 'airly good health, though Her health was good until recently. gradually failing, until two weeks She was a member of the Methodist previous, when he had a falf; which church. Besides her husband, a famhastened his death. His wife, whose My of five survive, namely, William, naiden name was Margaret Hartley, was also a native of Ireland, and Collingwood; Thomas, of Lindsay; survives him. He was a member of James, of Pontypool; and Miss Lizthe Methodist church, wide'y known zie, at home. The funeral to Bethel and respected. Of a family of twelve cemetery on Tuesday, December 5. nine survive, namely, Ars. James Mc- was largely attended. Gill, Janetville : Mrs. James Graham, Devil's Lake, North Dakota; Mrs. James Patton, Mrs. Charles Hartley and Mrs. Wm. Huggins, of Ops ; Mark, of Swift Current, Sask.; Abrahaham, of Toronto, and Charles on the homestead in Ops. The funeral took place on Thuesday, Decem-The death of five members of one per 13, to Piverside cemetery, Lindsay, Rev. F. Johnston, of Omemee,

MRS. WILLIAM CONNELL. Mrs. William Connell died in Manvers on Sunday, December 2, aged

### was Mary Irwin. Her husband predeceased her some years, and a family of six daughters and three sons are left to mourn her death. of LA GRIPPE

Quebec Man tells how the Great Consumptive Preventative was an ali-round Benefit

in Ottawa," says R. N. Dafoe of Northfield about three months. The news of tre, and Louis T. Wood, Toronto." Farm, Que., in an interview. "She got a his death, which came suddenly, arbottle of Psychine and after using it for a rived as a shock to his fellow-offl- say on Friday by the 11.45 C. P. R. few days she was quite well. I took a cold cials, among whom he was highly train, and the funeral, which was priand am using it and am getting all right. esteemed. Hon. Mr. Matheson, the vate, took place to Riverside cemet- value of \$100,000,000, was judge I think Psychine is one of the best tonics Provincial Treasurer, also voiced his ery. Rev. C. H. Marsh conducted at the fair. He spoke with regret of on the market to-day." There you have the whole matter in a the loss to the civil service of a very

DR. T. A. SLOCUM, Limited, Toronto, the Canada Bowling Club. He was cream of stock, which represented a livery.

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LINDSAY

and came to the township of Cavan

of Midland : Mrs. Richard Baker, of

The Daily Columbian of New West-

minster, B.C., on Monday, Dec. 3rd,

announces the death of Mr. W. G.

Armstrohg, a former resident of

Millbrook, where he was born. He

visited in this district last summer.

Mr. Armstrong was Warden of the

Provincial jail, and was one of the

most respected citizens of the above

There passed away in Millbrook on

December 10 an old and respected

resident in the person of Mrs. Sam-

uel Rowe, who was in the 78th

W. WILSON WOOD.

Mail and Empire of Dec. 13: "Mr.

position of Assistant Provincial Au-

ditor since 1901, died at the

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Were 35, reduced to...... 27 Were 30, reduced to..... 25 Also a few second-hand instrument and machines at about year of ner age. Her maiden name vour own figure. I also have a Frew Coal Ash Sifters for sale.

J. J. WETHERUP Corner of Sussex and LINDSAY 

sitor since 1901, died at the resi- an unmarried man. Three brothers dence of his father, Fon. S. C. survive him. They are Mr. S. Casey Wood, 97 Avenue Road, on Wednes- Wood, the well-known Toronto lawday afternoon, after an illness of yer; Mr. H. A. Wood, of Mines Cenregret, adding that his death meant the service.

in Lindsay in 1866, entered the em- Untario Government Will Endeavor to Attract **Immigration** 

years, and had won steady promo- At a reception to the delgates to cities could be brought back. tion from time to time, until he at- the Ontario Winter Fair at Guelph, drawback of farm life was the tained the post he occupied at the Hon. Nelson Monteith, Minister of of labor, and he promised that the time of his death. In faith he was Agriculture, presided. He had been Government would take this question a member of the Anglican denomina- asked to reply for the delegates, and up and would put forth greater eltion, and attended St. Paul's church. took advantage of the opportunity forts than ever before to direct Brit-He was for years prominent in ath- to present his views on a number of ish immigration to this Province. He letic circles. As a player of Associa- questions connected with agriculture referred to the extension of the rurtion football he was noted, and and the Guelph Institutions. In his al telephone, and hoped that it would some years ago he captained the To- opinion the fair, with its concomi- be still further extended before hand ronto Rugby team. Mr. Wood was tant conventions, was the crowning and that the day was near at hand es at and 82 all druggiets a member of the Victoria Club and agricultural event of the year. The when there would be a rural mail de

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the decrease in the rural population The cities and the great West were taking the boys and girls away, although they were needed on the farm now more than ever. He urged that every effort be made to keep the boys at home; indeed, he thought that if the right methods were followed, many of those who had gone to the

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