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"The Champion Oxford Flock of America" Winners at Chicago International, Toronto, London, Winnipeg, Regina, Brandon, Saskatoon, Edmonton, Calgary and Lethbridge Fairs. Present offering: 75 ram and ewe lambs, 46 yearling ewes (some fitted for show), also 15 yearling rams which will make excellent flock-heads. Consult us before buying. Peter Arkell & Sons, Teeswater, Ontario

ALLOWAY LODGE, STOCK FARM Southdown Sheep

Look up this year's record at the shows. Breeding stock of all ages for sale.

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1900 : SPRINGBANK OXFORDS : 1914 Ram and ewe lambs for sale, sired by Adams 77, imported by Wm. Cooper & Nephews, Chicago: of good type and quality. Wm. Barnett & Sons, R.R. No. 3, Fergus, Ont. Long-distance Bell phone.

Shropshire Sheep For Sale Shropshire rams and ram lambs for sale, all pedigree stock. Prices right, apply:— W. F. SOMERSET, PORT SYDNEY, ONT.

OXFORD DOWNS FOR SALE—A number of good quality ram lambs from show stock. Reasonable prices. Write for particulars. N. A. McFARLANE, R.R. No. 2, DUTTON ONT.

LINDEN OXFORDS We have some good shearing rams; this year's crop of ram and ewe lambs. Will also sell a few three-year-old ewes sired by a Hobbs-bred ram. R. J. Hine, R.R. No. 2, St. Marys, Ontario

Mention this Paper

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Sired by Adonis Imp. 57495, and out of ewes that have won many prizes at big and local shows. I have high-class flock headers and high-class ewe lambs, also shearlings, of both sexes. Yorkshires both sexes, any age.

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Large White Yorkshires

Have a choice lot of sows in pig. Boars ready for service and young pigs of imported stock from the best British herds. Write or call. H. J. DAVIS, Woodstock, Ont. Long-distance Phone. C. P. R. and G. T. R.

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In Duroc Jerseys we have either sex of any desired age, bred from winners and champions for generations back. In Jerseys we have young cows in calf, and young bulls, high in quality and high in producing blood.

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THE SPRUCEDALE STOCK FARM

Yorkshires and Berkshires of all ages, bred from show stock. Prices right for immediate sale. A. WATSON & SONS, R.R. No. 1, ST. THOMAS, ONT. Phone Fingal Via St. Thomas.

ELMHURST LARGE ENGLISH BERKSHIRES

From our recent importation of sows, together with the stock boar Suddon Torredon we can supply select breeding stock, all ages. Satisfaction and safe delivery guaranteed. H. M. VANDERLIP, Breeder and Importer, Cainsville, P.O., Ont. Langford Station on Brantford and Hamilton Radial.

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MAPLE LEAF BERKSHIRES for sale at reasonable prices; sows bred to farrow in May and June; also young pigs ready to wean; boars 3 and 4 months old, bred from imported stock. Satisfaction guaranteed. J. Lawrence, Woodstock, Ontario, R. R. No. 8.

Tamworths—Several boars large enough for service at bargain prices; sows ready to breed, for quick sale; splendid lot of pigs ready to wean. HERBERT GERMAN, St. George, Ont.

Please mention "The Farmer's Advocate."

Berkshires

From our prize-winning herd of large English Berkshires sows, many of them now of breeding age. Order early and get a choice selection.

S. DOLSON & SON, Norval Station, Ont.

SUNNYSIDE STOCK FARM Chester White Swine—Champion herd at Toronto and London Fairs, also Dorset Horn Sheep—Young stock of both sexes for sale; a few two-year-old rams. W. E. Wright & Son, Glanworth, Ontario

Cloverdale Large English Berkshires Sows bred, others ready to breed; boars ready for service: 200 from six to twelve weeks old, both sexes, pairs not akin. All breeding stock Imp. or rom Imp. stock. Prices reasonable. C. J. LANG, Hampton, Ont. R.R. No. 1

Sunnybrook Yorkshires If you want good herd sires or dams write or come and see those bred from Eldon Duke who won five Championships at Toronto and Ottawa exhibitions 1913 and 1914 and junior champion sows. Pairs supplied not akin. Stock guaranteed as represented. WM. MANNING & SONS, WOODVILLE, ONT.

TAMWORTH'S—Choice young sows; bred for September and October farrow. Also a nice lot of boars. Write for particulars and prices. John W. Todd, R.R. No. 1, Corinth, Ont. R.R. No. 1 C. A. POWELL, Ingersoll, Ont.

Hampshire Swine and Lincoln Sheep. Both sexes and all ages; from imported stock. Prices reasonable. Write for particulars and prices. C. A. POWELL, Ingersoll, Ont.

Canadas Champion Herd of Registered Hampshire Swine This herd has won over 90% of all prizes offered for the breed at leading Ontario Fairs. Write for particulars and prices. HASTINGS BROS., Phone CROSSHILL, ONT

Questions and Answers. Miscellaneous.

Cattle at Large.

I have a farm in New Ontario, township unorganized, and fencing almost impossible owing to bush fires. Am constantly bothered by neighbors' cattle and horses. Can I claim for damage done, and have I got to fence?
Ontario.

Ans.—You cannot recover such damages unless the animals have broken through or jumped over a fence then being in reasonably good repair, and of the height of at least four and one-half feet.

Re Trout Feeding.

In reply to your correspondent's query, re feeding fish, let me remind him that all salmonidae inhabiting waters contiguous to the Atlantic require no food if of breeding age during the fall and early winter. If the fish be immature, a food consisting of from 50 to 60 per cent. protein, and not more than 2 per cent. fat, should be given. Such a food is usually to be found in disiccated dried codfish (offal), and obtained from the fishing stations on the Atlantic coast. This being difficult to get, less rearing fish on a large scale, I should advise your correspondent to try small rations of chopped sheep's and pig's liver. Your correspondent should be careful to see there is plenty of moluscum life, e. g., fresh-water snails, to clean up foral and other decomposing organic matter when feeding meat, otherwise he may be troubled with disease.

J. B. FEILDING,

Late President British Fish Breeders' Association.

Water Power.

1. How can I find the power of water? Would say the fall is 10 feet high and 30 feet wide. How many horse-power would this give, and what kind of water-wheel would give the most power? I prefer the upright. What size should the wheel be?

2. How much to run a medium-sized sawmill and edger?

3. Could you give me an address where the water-wheel could be purchased?
F. W. S.

Ans.—1. To find the horse-power of water proceed as follows: Multiply the weight of water which flows in a second by the height it falls and divide by 550 e. g., if in the case given there were 1 cubic foot, weighing 62.5 pounds, which is about 6½ gallons falling 10 feet, the power would be 62.5×10÷550=1.136 h.p. But a water-wheel would not get this much out of it, indeed only a out of this, or .852 h.p. As it is not possible to use the whole 10 feet of fall, this would be reduced a little more, to probably .750, i. e., ¾ h.p., for one cubic foot of water per second. As the query does not give the quantity of water flowing, it is impossible to calculate the power of the entire falls. You should need to get an engineer to measure the flow unless you can do it yourself. When you know the number of cubic feet per second, multiply that by ½, and you have approximately the power it is possible to develop from the fall. There is not very much difference in the efficiency of various kinds of wheels, so you will be losing nothing in power by using the type of wheel you prefer. From the meagre information given, it is difficult to figure out the size of wheel you will need. However, we can suppose a case and work from that. Let us suppose the supply of water is rapid enough to make it run 6 in. deep at the end of the flume. If the flume was 1 foot wide, this would mean about 3 cubic feet per second. Then, for a wheel 8 feet in diameter, 1 foot wide, with 24 buckets 1 foot deep, the power developed would be about 2 h.p. If the wheel was made 2 feet wide, it would develop 4 h.p., and so on.

2. The term "medium sawmill and edger" is too indefinite to enable one to advise as to the power required. You had better get in touch with some makers of sawmill equipment, state the kind and capacity of equipment you want, and have them advise as to the power required.

3. Upright water-wheels, by which we presume you mean "over-shot" wheels, are usually built where they are to be used.
W. H. D.