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of heavy steel, well-riveted
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ished. Price \$1.25 each F.O.B.
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Every man engaged in mixed farming
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Southdown is the ideal mutton breed, and
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ROBT. MCEWEN Byron, Ont.
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Oxford Down Sheep Shorthorn Cat-
tles Yorkshire
Hogs—Present offering: Lambs of either sex. For
prices, etc., write to **John Cousins & Sons,**
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200 Head
Are as good as the best, because they combine the
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H. Jack, Imp. 28515, Champion boar at Toronto,
1908, 1909, 1910; and S. H. Romeo 27th, 24653,
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Our Brood sows, in view of the above, could not
but be of a very high class, combining great size,
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Sows and boars of all ages for sale. Write us or
come and see for yourself. All stock shipped on
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We are sold out of Tamworths; also females in
Holsteins, but still have some choice bulls for sale,
from two to six months, officially backed and right
good ones.

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for sale at reasonable prices; sows bred
for fall 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,**
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bred for fall farrow; a few boars ready for service; also one Jersey
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Present offering: Boars and Sows all ages, bred
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PINE GROVE YORKSHIRES
Bred from prize-winning stock of England
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TAMWORTH'S Some choice young
bred for summer and fall farrow; also a lot of boars 2 and 3 months
old. Write for prices. **JOHN W. TODD,**
R. R. No. 1, Corinth, Ont.

Questions and Answers.

Miscellaneous.

Preservatives for Cream—Cows Chewing Bones.

1. I would like to ask, through the
columns of your paper, what the dairy-
men use in the cream to keep it sweet
while it is being kept for testing?

2. Have noticed my cows chewing old
bones and sticks. What is the cause
of this, they are on good pasture and
get plenty of salt?

Ans.—1. Corrosive sublimate, also
known to chemists as mercuric bichloride,
is used for this purpose. It is a deadly
poison, and must be used accordingly.

2. This trouble usually arises from im-
properly balanced rations or a lack of
some essential ingredients in the fodder.
Eventually it becomes a chronic habit.
Feed a balanced ration containing bran
and clover hay. Allow plenty of salt,
and twice a week give each a closed
handful of sifted wood ashes. This is a
preventive more than a cure, and one
ounce phosphate of lime given as a
drench or with some bran might allay
the desire on the part of the cows to
so indulge.

Water Powers.

1. Take a two-inch stream of water
with pressure of sixty pounds to square
inch. What power would this stream
exert in running an electric dynamo for
furnishing electric light?

2. Take a stream with say 10-feet of
a fall in eighty rods, sufficient to fill a
four-inch pipe, that is to keep a four-
inch pipe running full. What power
would said pipe give to keep a water-
wheel going to run a small plant, or
would it be any use. N. R.

Ans.—1. A circular jet of water 2
inches in diameter, under pressure of 60
pounds and when supplied by an ade-
quate pipe line would develop as high
as 26 h.p. on a suitable wheel. If, how-
ever, your pipe was a very long one
friction would reduce this somewhat.
The size of pipe also would have an in-
fluence on the power.

2. Referring to your second inquiry,
with a head of 10 feet, a 4-inch pipe 8
rods long, the greatest amount of power
you could obtain under these conditions
would be by sacrificing one-third of the
total head by friction in the pipe. This
would give you a discharge of about 11
feet and an effective head of 6-2-3 feet,
and would enable you to develop about
1-10 of 1 h.p. W. H. D.

Injury Through Drainage Water.

A private company, whose property
adjoins mine, in sinking a shaft came
upon a spring. To drain this they have
put in a two and three-inch pump. They
run the water across my property, which
is the natural course for surface water.
This water is a nuisance to me, and
puts me to much inconvenience. I have
low land which now is quite wet. The
ditch running full of their water keeps
the water backed up on the land.

1. Have they right to run water
across my property without my consent?
2. Should they not have leased the
right of way. If so, what would be a
reasonable fee, diagonally across 100
acres, about 100 rods?

3. Could I not forbid them running
any water upon me unless conducted
across through the water pipe?

4. Should they pay for damage done
by flooding? A READER.

Ans.—1. All drainage water must be
carried to a sufficient outlet, which
means where it will do no injury to
land or roads. You have not stated
whether this is a natural water course
running the year round or not, which
might alter a decision on the matter to
some extent.

2. This question is not definitely
answered by law. It must be left to the
judgment of the engineer or the unpre-
judiced appraisers. Not knowing the ex-
tent of the injury to your lands it
would be impossible to estimate a reason-
able fee. If unprejudiced appraisers
could not be obtained it would be neces-
sary to call on the engineer.

3. You could forbid them running the
water across your property, but a veser
than would be to compromise through
a fence or to have an award made
by a justice of the peace, and if the
company is so obstinately determined
to run the water across for the surface
water, it is more active than in the
past. The water is more than in the



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Special offering of sows in pig, boars ready for service, and some extra good young
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NEWCASTLE TAMWORTH'S, SHORTHORNS AND CLYDESDALES
For sale at once:—Two choice sows in pig, 2 years old; one extra choice year-old sow bred; boar
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my present stock bull Broadlands; all from splendid milking dams. One registered 3-year-old filly; one
5-year-old and a 12-year-old Brood mare, all of splendid quality; prices right.
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Large White Yorkshires Have a choice lot of sows in pig.
Boars ready for service and young
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at reasonable prices. All breeding stock imported or from imported stock from the
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