6



This KIRSTIN One ManStump Puller is in class by itself. It is as superior as it is dif-rent. Just a steady back and forth motion a the lever gives tons of pull on the stump.

on the sever gives tons or pain on the scamp.

The secret of its great power is in double leverage. Made of high-grade steel, combining great strength, durability and light weight. Soft steel clutches grip and pull without wear on the cable. Clears over an acre from one anchor. Changes the speed

while operating.

Thirty days' free trial on your own land.
Three years' guarantee, flaw or no flaw. Six months to pay, if you wish.

Get Big Fee Book and Very Special Offer on One Man and Horse Power Pullers—all

J. KIRSTIN CANADIAN CO 255 Dennis St., Sault Ste. Marie

MUSIC TAUGHT FREE

the Oldest and Most Reliable School Music in America—Established 1895, ano, Organ, Violin, Mandolin, Gultar, Banje, Etc.



ers or advanced players. One lesson week's atlons make everything plain. Only expens 20 per day to cover cost of postage and musi-Write for FEEE bookies which explains every American School of Music 76 Lakeside Building, Chicago

RENNIE'S SEEDS

Alsike, Red Clover Alfalfa and Timothy, Peas, Beans, Spring Rye, Buckwheat, etc. WM. RENNIE Co., Limited Cor. Adelaide and Jarvis Streets TORONTO

A FORTUNE IN POULTRY



Increase your egg Chaice Cock or Cockerel of our high record Rocks, Wyandottes, Leghorns or Reds. 1917 Mating List con-taining 65 photos of stock, buildings. Feed and tonic formulas

L. R. Guild, Box 76, Rockwood, Ont.



Notes, Queries and Answers

Payment of Wages

I F.A. hires with B for six months at so much a month, and A gives B a month notice that the is going to leave, will B have to pay A his wages? Gan B conce on A for damages if A quita? Subscriber, Simeoe Co., Ont.

If it is an established fact that A first lean established without any hired for six months without any condition regarding the termination of the contract, then he has no right to terminate the contract by giving notice, and if he leaves before the period of six months has expired, he is liable to pay damages to B for loss B sustains. A will be entitled to recover from B wages for the number of complete months that he worked wages and damages can be set off one against the other, the balance being payable by the person by whom the larger amount is found owing.

Mortgage and the War

MOTEGARE and the Walt

April 1st, 1913, which will be due
nort spring, can continue war is attle on
nort spring, can continue war is attle on
nort spring, can continue was a continue
to more any interest to a limit of the continue was
nort spring, will the law allow me to
raise my interest to a limit farm sold it
law is a continue was a continue was
not be a limit of the continue was
not be a limit of the continue was
not be a limit of the continue was
not continue was a limit of the continue was
not continue was a limit of the continue was
not continue was a limit of the continue was
not continue was a limit of the continue was
not continue was a limit of the continue was
not continue was a limit of the continue was
not continue was a limit of the continue was
not continue was a limit of the continue was
not continue was a limit of the continue was
not continue was a limit of the cont

Under your mortgage dated 1st pril, 1913, you cannot, without con-April. sent of the court, take steps to foreclose your mortgage next April unless the mortgagor is in arrears with his interest or fails to pay his insurance. There is nothing to prevent you mak-

Coming Events

Experimental Union, Guelph, Jan. 8-9, 1918. Eastern Ontario Dairymen's Association Convention, Perth,

Jan. 10-11. Western Ontario Dairymen's Association Convention, Strat-ford, Jan. 16-17.

Annual Meetings of Live Stock Breeders' Associations, To-ronto, Feb. 5-8. British Columbia Dairymen's As-

sociation Convention, Chilliwack, Feb. 6-7. Provincial Dairy Convention, Ed-monton, Alta., Feb. 20-21.

ing a bargain with the mortgagor to increase the rate of interest. This mortgage can be extended for a fur ther period without losing your prior-ity over the second mortgage, but you had better consult your solicitor when the time comes for doing this.

Can Son be Drafted?

I F I am not a naturalised citizen and have no vote in the coming election, have the tribunals any right to take my son away for military service?—H. H., Parry Sound District, Ont.

Parry Sound District, Ont.

In order to answer the question which you ask would necessitate having a great deal more information about yourself and your son than you have given. As this is an important matter you are recommended to see a solicitor in your own district,

Hard to Milk

HAVE a cow that freshened in Febru ary and shout a month afterwards, he stall make stopped on one of her teats Since then it has been tough to milk What would be best treatment?—A. H. Gloucester Co., N.B.

It is probable that the milk duct has become constricted as a result of the injury. This is hard to correct. Little plugs for insertion into the teat be-tween milkings, can be procured from dealers in veterinary instruments, or

e can be made out of a piece of dry ardwood. They have a bulb on each Must be perfectly smooth and must be thoroughly disinfected by immersing in boiling water each time before in-serting. This treatment in many cases succeeds in dilating the vent Do not try cutting.

Farm Management

Save the Liquid Manure NVESTIGATION by experiment stations have shown that the urine voided by animals contains urine voiced by animais contains over half of the fertilizing value of the exercta—about three-fourths of the total nitrogen and four-fifths of the total potash. Practically all the phosphorus is found in the solid manure. It has been shown also that the nitro-gen and potach in the urine is more gen and pottern in the atting is more readily available to plants than that in the solid excrement. The mixing of solid and liquid manure, therefore, in-sures not only a richer fertilizer but a

better balanced fertilizer.

The waste of liquid manure may be largely prevented by the use of suffi-cient bedding, or in case of stabled cattle, by the construction of manure cisterns which should be provided with special diaphragm pumps for removing the liquid manure to the field sprayer or distributor now manufactured for this purpose. The mixing of the liquid with the solid manure and the liquid with the south matter that the bedding and hauling directly to the field is doubtless the plan which is best suited to the average farmer, or with a concrete manure pit the liquid manure may be run into the pit with the solid manure and thus pre-serve both, since the liquid prevents fermentation and firing of the

Corn Cultivation

solid manure.

E DITOR, Farm and Dairy—Some months ago I read an article in your paper on corn cultivation. your paper on corn cultivation. This article stated that, at the illinois Experiment Station, as big yields of corn had been secured from plots where the weeds were kept scraped off the surface with the hoe, as were secured from other plots kept free from weeks later, Mr. W. C. Good statularly. A few weeks later, Mr. W. C. Good statularly. A few weeks later, Mr. W. C. Good statularly. A few weeks later, Mr. W. C. Good statularly. A few weeks later, Mr. W. C. Good statularly. A few media still later Mr. G. A. Brethen cause back and stated his belief that when we stopped cultivating the corn stops growing. Although the corn is now in the sile, I wish to add my opin-At least I will be in good time for

next spring. Now, Mr. Editor, I believe in ver-shallow cultivation for corn, and if w shallow cultivation for corn, and if we could cultivate shallow it would be all right. The hand hoe is the only implement I know of, however, with which we can cultivate corn so shallow that we will not injure roots. Years ago, the regular way in our district was to cultivate the corn twice and hoe twice. We had good corn and clean corn. That was when help was plentiful and corn acrease was small. clean corn. That was when help was plentiful and corn acreage was small. We would cultivate the first time when the corn was nicely up, and then just before haying, when corn is a foot high. The first hoeing was between the two cultivatings, and the last hoeing after the last cultivation. I have seen cases where the last cultivating was done in just a part of the field and was done in just a part of the field and the other part not covered at all. The first and cultivated half would will hadly, while the second half would keep on growing and produce more corn. This was when corn was cul-tivated a little late in the season, too decessly, and nachams with the hiller eply, and perhaps with the hillers

As help became scarce, we invested as neip became scarce, we invested in a two-row corn cultivator. We kept this machine going from the time the corn was too big to harrow until haying time, when the corn became

too tall to straddle the rows. Then we severally stopped cultivating. At first we thought that perhaps we should keep right on and cultivate with a single-row cultivator. My fatier, however, always thought that it was rever, always thought that it was rever, always thought that it was rever, always thought that it was resting at the head row and dig down into the wear the wand the stand to the wear the wand the corn roots. If seemed that they made a perfect mat your the whole soil, and that they came very, very near the surface. It then did not take me long to comclude that we could not cultivate late in the season without disturbing roots.

My conclusion is that, in a similar that the way of the country of the count too tall to straddle the rows. Then we

all moisture that might seek to escape

by evaporation.

The whole question hinges upon whether the lack of late cultivation or the inevitable injury to the roots by practising it is of the greater consideration. I would not care to follow any practice that would injure these roots.—C. G. M., Glengarry Co., Ont.

Tractor Queries

PREFER two front wheels and two back wheels. The majority of the weight should be upon the two back The road roller type prevents wheels. the tractor from being used for many kinds of cultivating, and so curtails the usefulness of the tractor. When operating upon soft ground, extensions may have to be added to one or to both of the back wheels, also different or more extended lugs might have to be used. More attention will have to be paid to the width of the rim of the back wheels and to the size or capa of the lugs attached thereto. Farm tractors supplied with caterpiller trac tion can operate upon very soft ground. These machines are, how-ever, much more costly as to first cost, and much more costly to operate, the repairs required by the caterpiller at-

technical technical systems of the caterphier abetachments being very considerable.

Certainly Tractors should be made so that they will turn in as short a distance as possible, and the implements behind the tractor should also ments benind the tractor should also be operated as closely as possible to the tractor, and the tractor driver should be as near the implements as possible.—Louis Simpson.

The Less Known Clovers

FORTY-ACRE plot of sweet clover at Macdonald College was cut across diagonally the first fall after seeding, half the plot being mowed and the other half left as it mowed and the other man test was, Early in June this year, shortly before cutting, the half of the plot which had not been disturbed the previous fall, was fully a foot higher than the other half, which had been cut in the fall. Fall cutting however, had not killed any of the plants. Does this indicate that it is inadvisable to pasture sweet clover the first fall?

similar plot of black meddick, which is also of the clover family, was treated in exactly the same way, but with exactly opposite results. The stand of meddick was killed by not cutting in the fall. This would seem to be ar argument for close pasturing meddick.

of meddick.

Crimson clover has been experimented with at Macdonald College,
but under Canadian conditions, it is only an annual. It has been killed out winter.

Sanfoin, another of the clovers, is a perennial and a good plant when the ground is not fertile enough for alground is not tertile causal of falfa. It is very popular in Europe as the dry forage is a richer feed than affalfa hay. It does not yield as heavily, however, as affalfa. At Macdonald College it is grown in a small way, usually yielding one crop a year, but two crops in good seasons. — F. E. E.