Quebe The College Farm consists of 387 acres. The crops grown are hay, pasture, corn, potatees, roots, eats and barley. We have a definite system of rotation. Our system is a four year one. The first year, cultivated crops; the second year grain, seeded with a good mixture of grasses and clover; the third year, hay; fourth year, pas-ture or hay. Our object is to grow the heaviest crops of the very best

In working out the rotation of crop certain principles must be adhered to in order that the fertility of the soil may not only be retained but increased, and this at the least possible cost.

The four year rotation might not be
possible in all parts of Canada. One
must consider the location, the kind of soil and the number of animals to be provided for. I sometimes advise the three or four year rotation. It is very the three or four year rotation. It is very essential that a crop of clover sod be plowed under every three or four years in addition to applications of farm manure. In this way we can restore the required amount of vegetable mat-ter for the growth of cereal and other crops. It is necessary not only to fill crops. It is necessary not only to fill the soil with vegetable matter, but

cultivation LAID OUT IN RANGES

The college farm is laid out in four ranges. Each range has different sections. The ranges are one quarter of the farm. The sections are the different fields in the range. On range No. I we had a good crop of grain and also secured a splendid eath of grasses and clovers last year. This range was devoted to corn and roots in 1907 the 35 acres gave 622 tons

The Macdonald College Farm of feed. This field was thoroughly John Fixter, Farm Supt., Macdonald College, worked before and after the corn was sown. It also received a was sown. It also received a coating of 18 tons of farmyard manure. After the corn was harvestfarmyard coating of 18 tons of Intringate manure. After the corn was harvested, the land was thoroughly ploughed, deep as the soil would allow. In the spring time the soil was in a fine state mechanically. We used the cultivator freely, then harrowed with the smoothing harrows before sowing our grains and grasses.

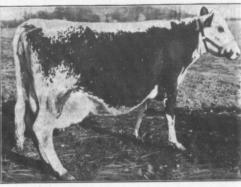
grains and grasses.

The grain sown on this range was banner oats. These we prefer to other varieties. We also had the Licowo and the Siberian varieties. We sow oats at the rate of two bushels an acre. oats at the rate of two bushels an acre-Barley is also grown, the Mandscheuri and the Mensury varieties, sown one and a quarter bushels an acre. Our grasses are timothy and orchard grass. Our clovers are red, alfalfa and alsies, sown at the rate of 20 pounds an acre-We prefer the mixture of grass as we get a very much larger yield of fodder and have a better second crop from the mixture. It also makes better

THE HAY CROPS

On range two, sections 1, 2 and 3, we took our first year's hay crop last season, also a second crop from the same range. The first crop would aver-age two and a half to three tons an acre; age two and a mar to three toon stateder, the second crop, probably one and a half an acre. It would pay farmers to produce more clo - seed. We had some excellent patch It would have paid farmers to hav some long distances to see these fields and get inthe soil with veget ble matter, but these fertilizing constituents must be available for plant food before the crops can derive any benefit from them. This we accomplish by thorough tances to see these neths and ger in-structions how to save their clover and grass seed. There need be no cry of expensive clovers and grasses, when farmers can grow and save their own seed. Much of our hay is stored in stacks. We unload by means of a stacks. We unload by means of a single pole to which are attached three guy ropes. This system is an excel-lent arrangement and is one that can be put up easily by any farmer. It only requires a single rope and two

pulleys. Our stacks are all thatched. | Cultivating should be done frequent. This is done with the corn that has | y, especially in dry weather. Great been thinned out from our fields. It | care must be taken not to cultivate too makes splendid material for thatching. | close to the rows or too deeply when On range 3, sections 2 and 3, we the corn gets three or four fest high makes spiendid material for thatching, close to the rows or too deeply when On range 3, sections 2 and 3, we the corn gets three or four feet high practised after-harvest cultivation. Visitors saw us ploughing, cultivating, habit. We made this mistake on a few disk-harrowing and dragging on these sections. It was somewhat of a surprise much by one or two tons per acre as



A heavy milking Grade with a Record of 17,170 lbs. in Ten Months

cord of this cow should be an inducement to all dairymen to grade up their This cow gave 81% pounds per day at two milkings. She proves that good ay also be grades. She is owned by Edmund Laidlaw & Sous, Eigin Go. Ont.

was practised after the crop comes off was practiced and the country besides the mechanical condi-tion of the soil would be much improved.

STICKLERS FOR CULTIVATING

We are sticklers for cultivating. We even prefer to cultivate sod land rather than to plough it. We aim to keep all deed on the surface and to dry them out in the sun. It is much better had not in the sun. It is much better had not in the land is intended to potatoes or roots the following year, we try, if possible, to get the nanure on in the autumn. Then we nanure on in the autumn. Then we now the land as deep as the soil will allow. We find sub-soil ploughing is beneficial for roots. When ploughing we do not turn the furrow over flat. We are sticklers for cultivating. beneficial for roots. When we do not turn the furrows We set them up well on edge so that the manure will be from top to bottom of each furrow. Land intended for of each furrow. Land intend roots may be ribbed in the fall.

roots may be ribbed in the fall.

Range 4, sections 1 and 2 were devoted to roots last year. Our roots in 1907 gave us 22 tons to the acre.

The crop last year was even better. We had 11 acres of mangels and five of turnips. We sow the mammoth here and wright of margles. We also long red variety of mangles. We also sow a few sugar white and sugar rosy mangles. In turnips we prefer the purple top Swede and Hartley's Bronze top.

HANDLING THE CORN CROP Our corn was an excellent crop August 14th it measured 121/2 feet. It was extra well eared. We had 20 acres

was extra well eared. We had 20 serce of the Leanning variety, 5 of Champion White Pearl and 5 acres of Longfelow. I would prefer Mastodon to Champion White Pearl, but I was unable to procure the seed. Our corn land was manured with green manure with green manure with white This was ploughed which the winter. This was ploughed land was manured with green manure during the winter. This was ploughed under with a good growth of clover in the spring. The land was well work-ed before sowing and then planted with the ordinary disk seed drill. After the corn had been sown for 2 or 3 days we put on the harrows. We After the corn had been sown for 2 or 3 days we put on the harrows. We harrow the land two or three times before the corn comes up; the last harrowing takes place just as some of the plants are appearing. This harrowing means a great saving in noeing and cultivating. It also forces the growth of the corn just at the right

If more summer cultivation did the corn that was properly cultivated. It was a good object lesson for students and others.

students and others.

We cut our corn as soon as it reached the glazing stage. Most people cut their corn too soon. The riper the corn, the sweeter will be the ensilage. Our potatoes did fairly well but in some few spots they were struck by a blight. The Rordeaux mixture was

blight. The Bordeaux mixture was not strong enough. It should be made of four pounds of lime, six pounds of blue stone 40 gallons of water. It would be better if there were larger openings in the nozzles. The spray appears to be too thin to be effective. Some of the outside rows of the plot kept much greener than others more centrally located. These rows were always done twice over every time the field was sprayed. We plant the Carmans number one and the Delaware varieties.

Want Dog Tax Law Amended

In addressing the Agricultural com-mittee of the Ontario Legislature, mittee of the Ontario Legislature, with a view towards having the dog tax by-law amended, as reported in Farm and Dairy last week, Mr. John Campbell, one of the members of the deputation, referred to the decline in the sheep industry in Ontario and how the American quarantino against sheep had reduced the value of pure bred flocks by one-half. Sheep-raise bred flocks by one-half. Sheep-raising, he claimed, was the most profitable of any branch of live stock for the farmer to engage in. Sheep meat, he stated, can be produced at \$1 to \$2 less a cwt. than can any other meat and it always sells at good pric-But farmers are afraid of dogs and many have gone out of sheer raising altogether because of the risof having their flock destroyed to dogs. He pointed out the increase dogs. He pointed out the increase in the dog sax asked for would be in the interest of those who were breeding pure-bred dogs. It might be advisable to provide for a lower tax for pure bred dogs as they were always well looked after by their owners and caused no trouble.

Mr. Smith stated that the sheep raiser was at the mercy of the prow-ling dog. Once worried by dogs a flock never fully recovers and might as well be destroyed. In many town ships the revenue from the dog tar

was a good paid out for ships collect make any of stroyed by ship in Nor been collect present law \$2,000 paid cently the cided not t killed, but that sheep owner of the pelled to cal sonable time cause of dea Lt.-Col. N one of the was in that

owned outsi ed to enforce many sheep from the Mr. Telfer undertake be undertake lishing illust which the go ed \$500. Th 12 sheep with ferent parts them fed an so as to show how profitabl sheep. It is work will sh

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out to sheep of Lt.-Col. Mcl of dogs, expr quite in favor ments.

Exempt In

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wants improve be an up-to-de to have better attractive and his home and t rying out his neighbor's land as his own. I outbuildings, p balcony to his of coats of prilawn, sets out a so some orname nice drivewa a nice drivewa in front of his gates with his his farm on the complished alon He raises his as 000, the value of and still it is the that it has a m was bought wit out of the fa whole lot of m loss of many ho ing out and pla ments. Now, Mr. Ed man B or any for such improv

Council or his r ribute one cent These men go to pense for their and in doing so prosperity to the try. Perhaps the some money to a ments and pa

BE READY FOR HARVES

MATURE will soon have done her part. If you are to receive the full reward of your year's labor, you must be prepared—to harvest your grain promptly when it is ready—to harvest it without waste—to do it with the least amount of labor.

out your grain the way farmers did a generation ago—and you cannot afford, when the grain is fully ripe, to be at the mercy of may about the matter new.

about the matter new.

Ask yourself whether the old reliable McCormick binder would not be a wis

Ask yourself whether the old reliable McCormick binder would not be a was investment for you at this time. When we have here the mind ependence at harvest time for tends that meets for a long a time asyou can remember when the most of the market property and all your grain. It does it with the least labor. It enables you to harvest you give a long tends of the most possible time. It handles grain in the down and tangled condition to as good advantage, at least, as any other harvesting machine in the world.

the world.

You cannot doubt the great and long continued service that a McCormick binder will give you. You have need for such a machine.

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