Hobe. Jones, Sr., Marmora, writes April 8, 1907, "I had a able horse with a big leg and ttle of ABSORBINE and it cured

W. F. YUUNG, P.O.F., 123 Temple St. Springfield. Mass

This Cylinder Shows Why The "EUREKA" Root Cutter



urns out roots in shreds autiable for any kind of feeding, autiable for any kind of feeding. The "Euroka" shreds from one to two bushes a minute, and turns so easily the feed is kept to bushes a minute, and turns so easily the feed is kept fee from dirt, the feed is kept free from dirt. can reach the shredding cylinder.

The sloping form of the cylinder makes the machine a self-cleaner. Write for catalogue which explains fully. The Eureka Planter Co. Woodstock, Ont.

The Belleville Business College

Has one thousand Graduates filling prominent positions. College open the whole year. Write for Catalogue D. The Belle Business College, Limited, P. O. Draw er "B." Belleville, Ont

LEARN WIRELESS & R. TELEGRAPHY:
Shortage of fully 10,000 Operators on ac
count of shour law and extensive "wire
developments. We operate under
the operation of Telegraph Official and
positively plant of Telegraph Official and
fied. Write for catalogue. "A FT GRAPH INST. Cincinnat, Philadelphia,
Memphis, Davenport, Ia., Columbia, S. O.:
Portland, Ore.

THE ONTARIO PROVINCIAL

GUELPH, ONT.

DECEMBER 5TH TO 9TH, 1910

Large Prizes and Classes for

Beef Cattle, Dairy Cattle, Sheep, Swine and Poultry, Seeds, Judging Competition and a

HORSE SHOW Entries close November 19th

Single Fare Rates on the Railways.

\$16,000.00 in Prizes For Prize List apply to the Secretary, J. BRIGHT, Pres. A. P. WESTERVELT, Sec.

ADVERTISERS,

On December 1st, the last of our Eight Big Magazine Num-

bers for this year will be published

OUR SECOND ANNUAL BREEDERS NUMBER

A Small Dairy Farm

We have 52 acres which we can use for rotation, apart from bush, orchard, eight acres of lucern, and two or three acres for roots and potatoes. The soil is gravely loan with patches of sandy loam. The land slopes enough to give good drainage. None of it is underdrained.

1-How shoud I use this land to carry the most profitable number of cows? 2—How should I apply the manure? 3—What is a good absorbent for liquid manure? Saw dust can be obtained at 75c or \$1 a lo 4—Which breed of dairy cattle would best where pasture is little used? 5—Cou

best where pasture is little used? 5-Could you inform us where good grade cowe can be obtained, of each breed? As you propose to feed your cattle in summer rather than pasture them I am of the opinion that a three-year rotation would give you best results in enabling you to keep mest cows and to produce milk most cheaply off the limited area you mention.

The retation would be: First year,

corn, roots and green feed, such as corn, roots and green feed, such as peas and oats; second year, oats and barley mixed, or pure oats, seeded down with eight lbs. red clover, six lbs. alfalfa und 12 lbs. tim-othy an acre, and third year, hay, two cuts, or pastured in part to suit convenience

or requirements.

or requirements.

1. Manure might be applied on the sod in the fall and winter preparatory to plowing down for corn the next spring. The manure should be spread evenly as often layer or small rules for the layer of the layer either large or small piles for in small tarfafr odwodw cdw more than a few days. If hauled out on deep snow, it might be advisable to leave in small piles until the soil it should at once be spread before the ground under the pile has softened and become absorbent

Sawdust is a good absorbent fer liquid manure; cut straw, or even long straw is better At the price of \$1.00 a load, sawdust is protably cheaper than straw for the purpose. Hardwood sawdust or sawdust of other than pine or fir woods would be the better to use. Sawdust from resinous woods does not ret restrous very quickly and would not have in itself a very beneficial effect upon such light soil as you describe.

CHOICE OF BREEDS

3. Any of the regular dairy bre 3. Any of the regular dairy breeds, Ayrshires, Guernseys, Jerseys cr Hol-steins or their grades would do satis-factory work as soiling cows. The end in view would probably influence-you. Holsteins and Ayrshires would probably be most satisfactory if shipprobably be most satisfactory if ship-ping milk to a city, or for cheese factory work. The Jerseys and Guern-seys would probably be more satis-factory if selling cream or making butter

Good grade Jerseys could I think be picked up in the neighborhood of Brampton. Grade Helsteins are in evidence almost anywhere in Ontario, but probably more commonly in Ox-

ATTENTION !

TENESS from a Bone Seavin, Ring net, Splint, Carb, Side Bone or aim received as the supposed with the supposed with the supposed ford County than most other dis-tricts. Grade Ayrshires are common in Eastern Ontario and in Quebee but I do not knew of any district where they are plentiful in Western Ontario. Grade Guernseys are not to be found in great numbers anywhere in Canada.

Second Crop Clover and Timothy

I cut a piece of clover and timothy this season and the second crop is now in bloom. Is it better to mow it and let it lie, or leave it standing?—G. B., Drum-mond Co., Que.

The best way to handle the se The best way to handle the second crop of clover and timothy in the field in question would be to pasture it off. If no cattle are available to use this way then your best plan would be to let it go to seed. It is so late in the season new that it would not be advisable to cut.—J.H.G.

measure 700 to 1,000 feet of lumber

Farm and Dairy is not inclined to give too much credence to the scheme since it is well known that walnuts of the common tlack variety are found naturally on soils varying from a loam to a heavy clay nature. The native white pine would be a much more certain proposition on these waste sand areas.

Ontario County Road Expenditures

en counties in Ontario have established countries in Untario have established country road systems under the Highway Improvement Act. These are: Carleton, Frontenac, Halton, are per clover and timethy in the field in question would be to pasture it off. If no cattle are available to use this way then your best plan would be to let it go to seed. It is as late in the let it go to seed. It is as late in the visable to cut.—J.H.G.

Seeding Wet Land

I am clearing a piece of awamp land and would like to know what kind of grasse would be suitable for seeding. This awamp cannot be drained, and will be covered with water in both spring and tail.—James Winnamesh, Piecon Co., N.S.

The grasses most likely to grow un-



A Splendid Stretch of Road in the Prince Edward County System

The Prince Edward County road system was organized in 1937. It includes 54 miles road. It is anticipated that the entire mileage will be completed during 1930. The coun is equipped with modern road-making machinery, amongst which is included two road roers. The road herewith illustrated is in decided contrast with roads not finished with

der such conditions are red top and timothy. The land should be drained as well as possible, then worked during July and August. Keep the weeds dewn by harrowing as late as possible in autumn, then in the spring as anon as it is possible to walk dry sible in autumn, then in the spring as soon as it is possible to walk dry shod over the field, sow the grass seed above mentioned at the rate of 10 lbs. timothy and 12 lbs. red top per acre. Harrow lightly after seeding and roll. If it is possible to roll at all it would likely be advantageous to roll two chreat times after seeding. to roll two or three times after seeding.—J. H. Grisdale.

Planting Waste Land

It is reported that about 10,000 acres of waste sand land in Simce Co., Ont., has been acquired by a New York milionaire at a price ranging from \$1.50 to \$6.00 an acre. Agents have been quietly purchasing the land for several weeks and it is alleged that they have their plans made for reforesting the land next summer. summer.

According to information gained by the Allisten Herald, it is anticipated that within 10 years, walknut trees planted on these was a way to the planted on the was a rease will increase to \$5.00 a tree as the trees mature. At the end of 25 years, of personal interest to the farmer.— it is estimated that the trees will

county systems has steadily grown. In 1909, the last two counties, Leeds and Grenville, and Carleten, passed the necessary by-laws. To the end of 1909, the average has been equal to 15 counties, each operating for four years, in which period 1,125 miles of stone, or good gravel roads, have been built. This neglects a large amount of minor, incomplete and scat-tered improvements which will even-tually be a part of the permanent work.

Expenditure under the Act since Expenditure under the Act since 1902 has been as follows:
Tell roads purchased....\$153,897.98
Sundry grants to townships,
villages and towns....\$9,957.02

Permanent bridge construc-supervision 1,404,497.88

Total\$2,128,122.93

Réééé The The our su vited interes intere

Octo

**** Fee of sugar for swine contain h

Does it to pleased t this matt Sugar first-class somewhat for pork roots are able food best meth and feed objection in cold w materially this kind As suit

these root lbs., corn lbs. Feed each 50 11 part of th wei finishing Meal wit

We have strong ensi grains woul in connection much would giving 25 pc Prince Edw As a mer with clover cribed I meal, 2 propart, by we five to six best results cribe. If able it mi into the m added to

given. Oil cake gluten meal replace the In the case used it will crease the b either case. exceedingly cews but no

> Cost o Prof. A.

Prof. A. braska Agric tion informs butter-fat at a pound the amount to a for 4 per cen farmer or da understood under favora has devised, with a little equip the dai

Each indiversely for productive by the best cow the poor cows feed of a covaverage grade 250 lbs. a ye instance, it instance, it is butter-fat whi pays to get from the cew feed and comf weight and version determine milk or other

It is not too early to decide what space you will use in this number. The earlier you make your reservation the better location you will secure. With our regular subscribers looking for this number, with an increased circulation, and with no advance in the advertising rates, you will miss an opportunity for enlarging your business unless you gut this RREEDERS' NUMBER. Write today for further particulars. Advertising Department Farm and Dairy

~ Peterborough, Ont.