ITEMS FOR AND ABOUT THE FARMER



STEIN ASSOCIATION HOLDS ANNUAL OUTING

essful Gathering at Bond Lake Where Breeders Meet, Lee Judging Demonstration and Hear Address From Prof. Dean on Testing Milk.

rednesday last was held the the community, and do what he could to secure fair and equal distribution of foodstuffs and better marketing conditions. The farmers needed to with perfect weather, a good mee of breeders and their family delivered addresses, the judgment, and demonstration by H. Dean of Guelph, it was a men of the future activities of perfect was an entire to the future activities of the family conditions. The farmers needed to awake to the necessity of working to gether so that they would be ready to take their part and secure their rights in the reconstruction period which would inevitably follow the declaration of peace.

President Gurney, of the United Farmers Co., Ltd., brought out the fact that men are activities of the reconstruction period which would inevitably follow the declaration of peace.

W. E. Burnaby of Highland arm, Jefferson, opened the pro-s with an interesting address association's aims and activihearers that the franchise was in their hands, and that it was a farmer's duty to use his franchise in order to correct therefrom. From the between Holstein breeders sociation's meetings many had already found out the their cows. If a man to oleomargarine be left as it is was carbonic in their cows. If a man to oleomargarine be left as it is was carbonic in their cows. been tested. Much good he to York County breeders

sires were another necessity proving their herds. He sug-that four or five breeders of means might, with profit, comourchasing a good sire. It and a good thing for the sire as the herds. Mr. Burnaby the audience that two hey had received the highest be price of any sale held this n Canada: and also the united of the entente allies in the pre-

R. H. Halbert of United of Ontario spoke ably on truction After the War" and art which the farmer should take in. He stated that the object of izing was to present a united which would give greater to such petitions as they

rmation contained in them. of the most intelligent men in advertising profession put their

erts into making these books

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Farm Tractors.

In the introductory remarks of the

oklet, entitled "Never-Slip Trac-

s, greater than Cyrus McCormick's

ation of the reaper in 1831, will k a sweeping revolution in soil

coated paper, with well written

rm a book valuable to any farm-

Is library. Copies can be had from Ionarch Tractor Company. Water-

Potato Culture. "Money in Potatoes" is the attrac-

any, Limited, Galt, Ont.

interests the reader frime-

It reads: "The farm tractor,

of contributions to agricul-

Splendid illustrations on

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Made Before Machines Are **GENERAL INSTRUCTIONS** Hints to the New Owner for

President Gurney, of the United Farmers Co., Ltd., brought out the fact that men are co-operators with God, and that farmers were uniting for the purpose of being a benefit to the community, not for any sinister motive or munity, not for any sinister motive or for commercialism. He reminded his hearers that the franchise was in their

A resolution moved by R. F. Hicks to the effect that the law relating to oleomargarine be left as it is was car-

ried and forwarded to Ottawa. one of them being an outstanding example of a dairy cow, owned by Mr. Hewlett, Norwich. Prof. Dean pointed out the good and bad points of the various animals and answered various questions to the interested listeners. He stated that most theories claiming certain physical features as guides to the judging of a good producing cow fell down when confronted with re-liable milk tests. He instanced as an example a prevalent theory to the effect that the mamery veins were guides as to the quantity of milk a well as the herds. Mr. Burlady inded the audience that two dis records were held in York my and that the world's records my as that the world's records my and one that two blood could flow thru them, and yet the cow gave the usual quantity of milk despite the apparent handicap. Prof. Dean told his hearers that no one knew how milk was produced, altho it was generally believed, that blood was the origin of it and that blood was made from the food which the cow ate.

ways united their interests when desired to increase rates, coal is united for the same purpose pork packers also. The farmer, ever, was organizing in order that might the better be a benefit to Condensed Information

information supplied by boards

engine may run under full compression. When the engine has gained nor mal speed the current switch should be changed to "magneto," that the motor may run on the current developexplained last Monday, The which she evidently purchased after frequently will publish short on books and catalogs of extension books. The book is well printed thrubut and ed by its own magneto. tional merit. Many such pieces of rature are worth a permanent pany, Rock Island, Ill., U.S. List of Farms.

Always of interest to many readers is a list of farms for sale in eastern Canada. The C.P.R. colonization and development department has recently the tractor is ready to be started. issued "Improved Farms in Eastern Then all open gears should be cover-Canada," the list being compiled from trade and other reliable sources. The C.P.R. states that the company has no pecuniary interest in the farms listed therein, and that it issues the book forthe sole purpose of inducing further settlement and immigration.

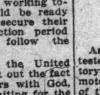
Wire Fencing. A small book worth having for the excellent illustrations of stock shown "on the other side of the fence" is entitled "Invincible," and copies can be secured from the Steel Company of Seeds.

"A book which makes you think right at the start is "Bruce's Seeds." On the inside front cover is a photographic reproduction of Lieut.-Col. W. H. reproduction of Lieut.-Col. W. H. Bruce, the officer commanding the 173rd Canadian Highlanders, who are now overseas. May he and his lads return in safety after a great and the sure that the master clutch is neutral, got how to stop the tractor. To stop return in safety after a glorious pardimited, Galt, Ont. It gives
information covering such
in

topics as soil, fertilizers, spraying, cultivating, etc. and many potato growers in Ontario will find in it valuable pointers.

Copies of this well illustrated catalog can be Sewered from John A. Bruce & Company. Limited, Hamilton.

J. F. Metcalf, district representative valuable pointers. at Gore Bay, writes that live stock and the gasoline control advanced so farming is the principal industry in that an adequate supply of gasoline that neighborhood. "Lambs, hogs, will be furnished the motor. A good idea well carried out is seen in "Great Western Cream Separators," stock or cattle and some horses. Quite a few potatoes are raised and some horses are controlled by centrifugal governors. The centrifugal governor is largely used where the engovernor is largely used where the engovernor is largely used where the engine is furnished a gas and air mixmather, and finally the same young with live stock at the strong end that an adequate supply of gasoline clutch may be given a final push, fully engaging it, after which it will reduce the proportions of which are constituted by central trifugal governors. The centrifugal governor is largely used where the engine is furnished a gas and air mixmather, and finally the same young oman is seen using the machine of it."



As a rule all tractors are thoroly tested before shipment from the fac-tory. This includes a test of the motor before it is installed in the frame of the tractor, and a test made by running the tractor on a special test-

STANDARDIZING OF

FARM TRACTORS

Exhaustive Tests Always

Placed on Market.

Operating His

Implement.

guides as to the quantity of milk as cow was capable of producing. In a recent experiment the mamery veins were tied up so that no blood could flow thru them, and yet the cow save the usual quantity of milk despite the apparent handicap. Prof. Dean told his hearers that no one knew how milk was produced, altho it was generally believed, that blood was the origin of it and that blood was made from the food which the cow ate.

After Prof. Dean's address the results of the judging contest were announced as follows: First prize, Harry Hill, Aurora; second prize, Robert Watson. Woodbridge; third prize, Stanley Watson, Woodbridge, President Clabon, of Richmond Hill Farmers' Club, then moved a vote of thanks to the speakers of the day, and Chairman Burnaby adjourned the meeting while some amusing sports were enjoyed. Tea and an enjoyable dance completed a most successful of the successful the complete of the day and completed a most successful of the completed a most successful of the complete of the day and completed a most successful of the completed a most successful of the completed a most successful of the complete of the day and completed a most successful of the complete of the day and completed a most successful of the complete of the day and complete of th

ing.

If everything is in proper shape, at the third or fourth revolution of the engine a sharp hiss will be heard from one of the priming cocks, and the en-gine should go ahead without further trouble. As soon as the engine begins firing, the priming cocks or relief valves should be closed so that the

On many of the new tractors the motors are operated on high-tension magnetos and therefore do not require batteries in starting. As the engine gains speed the throttle should also be closed, not allowing the engine to race but merely to "turn over" until

ed with pin grease and all grease cups should be filled and screwed down so that all bearings getting lubrication from this source will be well supplied. In starting a new engine it is well to remember that all bearings are new

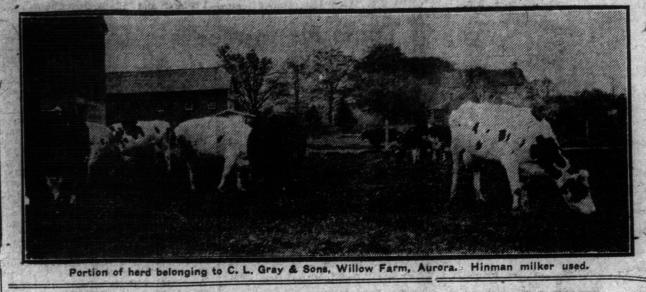
and their operation. In an artist twenty to thirty cows an hour. so general a nature as this, and with twenty to thirty cows an hour.

For that reason it is not economical transfer that reason it is not economical. many tractors on the market, all varying in modes of control, it is impossible to give specific advice as to operation, and the buyer will do well to study the catalog issued by the whether backward or forward. I have

independently of the tractor wheels. Then the lever controlling the spark advance should be placed in full retard

The principle upon which the governor works is that, when the speed of the engine is increased to a certain point, the weights attached to the governor arms will fly out by centrifugal force and close the gate controlling the mix-ture intake, which will slow the en-gine by reducing the amount of gas and air mixture fed the cylinders.

If the tractor is of one speed it will which operates at low speed, is heavy, be very simple to operate. The difficulty of learning to operate it will a slow-acting steering gear. increase with the number of speeds When the tractor is of two and the accompanying complexity. There is always one lever used as a There is always one lever used as a master clutch and one in changing speeds on every tractor, and the operator should always be sure the master clutch is discovered before a changing tight loads and for getting from place to place the highest speed should be used; for heavy haul-



THE MECHANICAL MILKER

IF THE WORLD THE THE WORLD THE STATE OF THE

Milking machines are figured and rough, and therefore require more units capable of handling six to eight oil and attention than will be necessary later.

Before the motor is started one should study and become thoroly acquainted with all the control levers and their operation. In an article of the started one man can attend to the started one man can milk that many cows in an hour, there might should be started one should be acquainted with all the control levers that one man can attend to three or and their operation. In an article of four units at the same time, milking

the spark advanced, and the dutch engaged very gradually. When the engaged very gradually. When the tractor gains momentum the master clutch may be given a final push, fully

gine is furnished a gas and air mixture, the proportions of which are controlled by a throttle, the amount of
this mixture used by the engine in
turn being controlled by the governor.
The principle upon which the governor
The clutch should always be kept in the "off" position when the tractor is

standing. To the mechanic familiar with steam tractor or automobile operation, the operation of the gas tractor will not be difficult. One who has been accustomed to controlling a light automobile will first have to become used When the motor has been started and is operating efficiently the tractor is ready to be started. The type of the steering mechanism of the steering mechanism of these mais ready to be started. The type of transmission with which the tractor is fitted will determine the number of levers with which starting, stopping and reversing are accomplished.

The type of the steering mechanism of these matrices, the steering mechanism of these matrices. The automobile operates at high speed, is light in weight, and levers with which starting, stopping acting steering apparatus; the tractor, and reversing are accomplished.

When the tractor is of two or three speeds the operator should always

clutch is disengaged before a change ing the medium speed; and for heavy drawbar work the lowest speed should drawbar work the lowest speed should of butter ranging from 40 to 44 cents.

Two other features of centrol are the be employed. The tractor should not be employed. The because a pound. Eggs ruled at 35 cents a

until it is attached, and a few need a little humoring and manipulation at the start.

Operation is at least three-quarters of the milking-machine question, and about the only chance now left for anxiety in making an installation of these machines is to be found in an old problem already established in most dalty barns. That is the labor problem, or rather, the problem of shifting and incompetent helpers. The milking machine is not especially complicated or delicate, but there must be considerable judgment in using it on different cows, just as different cows require some judgment in hand milking.

This is no problem at all when the work is done by the dairyman himself or by members of the family, or when helpers are capable and steady. It need not be a problem at all when the labor situation itself is handled intelligently.

On the other hand, the milking machine properly used helps to solve the general labor problem, for it cuts down the drudgery of milking, and makes it possible to do the work with fewer helpers.

Milking machines are figured in

tion or allowing the machinery to get into bad order. Too great air pressure, or leaving the teat cups on the cow coo long after she is milked dry, will have a tendency to make the teats sore. But care will prevent all that.
Some manufacturers advise hand
stripping of the last richest mills, for

the sake of the personal inspection that each cow gets each day. Others say there is no need of hand stripping that cows can be milked clean and dry with the machine. Sometimes the milking machine will show a decided increase in the milk with the machine. increase in the milk yield, as much as ten per cefft., especally if hand milking has been careless.

Machine milking is cleaner than

hand milking because the milk goes directly to a closed receptacle, never coming into contact with barn air or air-borne dirt. Machine equipment is now made in such a way that it is very easily cleansed. At first sight it usually looks as the washing might be quite a puttery job, but in actual prac-tice it is done very largely by allowing the air pressure which milks the cows to draw in water and cleansing solutions after milking is over.

Just now the milking machine seems to stand for a bigger question mark in the mind of the average dairyman than almost any other modern convenience available for the advancement of industry. This is because it is the newest of them all, and one that means so much to every farmer if it will really do the work.

In some cases the machines have proved disappointing after installation, and have been discarded. These cases and have been discarded. These cases are not numerous, however, and it can be said, in all impartiality, that any of the improved machines now on the market, made by trustworthy manufacturers and backed by good instruction at the time they are installed and good service afterward, will give satisfaction and effect economies if operated with the same intelligence and care needed with other labor-saving devices in the dairy and on the farm.

PRICES COMING DOWN.

Special to The Torento World.
Woodstock, June 16.—Prices on the local market are surely but slowly declining. Even the meat on the Saturday market declined two cents a pound. As to butter and eggs, large quantities were offered, with the price

WOMAN IS PROVING ABILITY TO FARM

Since Father's Death Sha Manages Farm With Com spicuous Success.

BY ROB ROY.

One of the ideal homesteads in Ostario is situated one mile south of Streetsville. A cosy farm house, almost hidden among a nest of roses, beside a stream that only needs a Burns or a Wordsworth to immortalise it as one of the beauty spots of Cax-ada. The drive from the road to house, is thru cherry, plum and apple tree? The farm buildings are attractive looking and spoplied with all modern improvements. Thirty-seven years ago this spring the Credit Valley Railway was built from Toronto out past Streetsville. James Blair started shipping milk to Toronto and continued to do so until his death, twelve

GROWING TOMATOES His daughter was then left alone. She was advised to sell the 100-acre farm and stock, but her love for the ON SINGLE STEMS oid homestead and country life would not allow her to do so, and she has since become one of the best Pinch Off All Side and Top

> Shoots for Better Results.

to follow, altho it requires more care than the ordinary way. Select strong

she has since become one of the best dairy farmers in the district.

When Miss Blair assumed charge of the farm the nerd consisted of dual purpose Shorthorns. Becoming convinced of the excellence of the Holstein, she has since gone entirely into that breed. About half are registered, If you have been growing tomatoes in years past in the ordinary way, letting the plants sprawl all over the ground, and have not been entirely satisfied with the country.

That breed. About hair are registered, and as the scales are used daily all are high producers. A pure bred sire is always used, these being selected from the best herds in the country. Thus the herd is being constantly satisfied with the coulties are not been entirely and the herd is being constantly beautiful and the scales are used daily all are high producers. A pure bred sire is always used, these being selected and as the scales are used daily all are high producers. A pure bred sire is always used, these being selected and as the scales are used daily all are high producers. A pure bred sire is always used, these being selected in the country.

satisfied with the quality of the crop, Ensuinge is highly valued and is the try growing them to single stems. I know of a home gardener who has produced \$100 worth of fine fruit in a small garden, much of which he has sold to his neighbors, by growing them in this way.

Ensilinge is highly valued and is the basis of the winter ration. At first a stave silo. 12x28, was used, but was found to be too small, and was blown down several times. In 1915 a cament one was erected. 14x35. This Miss them in this way.

The method is not at all difficult real making it much more comfortable. roof making it much more comfortable in winter

than the ordinary way. Select strong stocky plants of such red varieties as Earliana or Bonny Best, or of a pink variety like Globe. Be sure that the soil has been well fertilized with manure or commercial fertilizer. After the plants are started sprinkle a teaspoonful of nitrate of soda about each one if they are not making good growth: growth.

The rows are placed about three feet apart and the plants are set one and a half feet apart in the row. When the plants are set, a five-foot stake is driven, firmly into the ground close to each plant. In transplanting do not disturb the roots more than is absolutely necessary.

plies the engine with water for threshing, silo filling or grain grinding.

One of the hardest parts of the milk business was the storing and handling of ice. A wooden building would also rot out in a few years. Three years are Miss Elair public at children in the storing and handling of ice. A wooden building would also not disturb the roots more than is absolutely necessary. disturb the roots more than is absolutely necessary.

As the plants grow, all side shoots, which always appear in the axis of the leaves, must be pinched off. This does not require much time, but must be attended to at intervals of a week. In the first the care of mills plant in the first the care of hollow cement and milk house of hollow cement the locks. This keeps the care perfectly, and an ingenious arrangement of running water cuts the quantity of ice in the care of hollow cement the leaves, must be pinched off. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. This keeps the care of hollow cement the locks. The care of hollow cement the locks the care of hollow cement the locks the locks. The locks the care of the problem, and puts the operator second and the machine third. The cow's attitude toward the machine affects results. Some gows quickly grow accustomed to the machines, and give down milk when they hear it working. Others walt until it is attached, and a few need a little humoring and manipulation at the start when they make it working and manipulation at the start when they hear it working. Others walt until it is attached, and a few need a little humoring and manipulation at the start when there units can milk that many in which stand about four feet above as cold as the spring water it is put into the second tank where only in the second tank when the milk has become as cold as the spring water it is put into the second tank where only into the second tank where the cows is sufficient. by this method the fruit ripens carlier than under ordinary tomato culture, diseases are less troublesome, the fruit is larger and of better quality, the tomatoes are clean when picked spraying and hoeing can be moderate amount of ice is needed to 170 eight-gallon cans will be shipped and about 1500 to 2000 cans a year.

picked, spraying and hoeing can be done more easily, and harvesting is more convenient.

and about 1500 to 2000 cans a year.

Over a hundred hens, Black Minor-cas, are kept, and with eggs at present prices are a profitable. Twelve years ago a cherry, plum and pear orchard was planted. This started RECENT CONTRACTS FOR PORK bearing in three years and is today a thing of beauty and a joy forever. It was learned last week that the Belgian Relief Commission had made contracts with American packers for 20,000,000 pounds of pork and lard, at a cost of almost \$5,000,000. It is said that under the plans of the administration this buy-No mean profit would accrue to the Chicago meat packers in the above deal. For many months past the American packing houses have purchased hogs all over the United States at a lower price than the Canadian farmers have received for their live hogs. It is not customary for the Chicago pork packers to forward their houses have purchased to be such a heavy yielder that it is still more profitable, althous of apple or or ago five acres of apple or and was planted. Two rows of Spies, one of Baldwin, then one of Wealthy. The Wealthy are pruned heavily pruned heavily. tion now under contemplation this buy-ing will shortly be taken over by the Bartlett pears are of high quality, but not customary for the Chicago pork packers to forward their best cuts of pork and No. 1 lard on government them to early bearing and doing well.

Miss Blair considers fruit farming as not only profitable but very inter-esting." The business part of farming must not be neglected," said Miss Blair. "All the work on the farm done by men has to be paid for. I allow myself a fair salary allow a sum for wear and tear, and unless above that I make five per cent. on my investment I would not consider the farm paid." R. R. No. 1., Scarboro Junction, was planting corn last Tuesday with a Bateman-Wilkinson corn-planter. He

While proficient as a farmer, Miss Blair is highly cultured in other ways; She is one of the best read persons in tended the York County Holstein-triesian, Breeders' picnic at Bond Lake quaintance with Shakspere, Browning, Tennyson and other immortals has not injured her as a practical woman. Manor King Segis Johanna, owned by Wm. Loveless, Ellesmere, is a like-ly looking year-old Holstein bull. This is another sample of the methods be-

by Wm. Loveless, Ellesmere, is a likely looking year-old Holstein bull. This
is another sample of the methods being used by Ontario Holstein breeders
to improve their herds.

J. S. Knapp, district representative
of Waterloo County branch, writes
that practically all farmers in that
neighborhood are engaged in mixed
farming.



and cold storage plants in the United

Jas. Jonson of Cherrycroft Farm,

has a fine herd of Holsteins and at-

ONE MAN Milks 3 Cows At One Time---

Change Pails Without Stopping the Milking ... OR ...

\$60.00 Per Unit One Man Does 3 Men's Work

Let HINMAN MILKERS

Make You More Money in Time Saved Write---H. F. BAILEY & SON, GALT, ONTARIO For Free Milker Book "W"---It's Yours



Concordia Het Loo, owned by C. L. Gray & Sons, Aurora. Four same in pedigree over 100 lbs each, and his sire's dam, May Echo Sylvia, produced the world's best day's milk record of 152 lbs.

Two other features of control are the steering wheel and the brake. The operated on low gear, however, undozen, while some were accepted as low less conditions demand it, for the life operator should learn first, before the operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the less conditions demand it, for the life operator should learn first, before the life op