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Did it ever really occur to you that none of us have a "lease on life" and that the only way to attain the big things is to take advantage of every op-portunity with the least possible delay.

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We're selling labor savers and money makers, our

B-L-K Mechanical Milker "Simplex" Link Blade Cream Separator

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Our 1916 Special Issues

No. 2

Orchard and Garden Magazine Number - OUT MARCH 2nd =

This issue will meet the keen desire for the latest information on fruit growing.

"OUR FOLKS" know that the old neglected orchard may be made the most profitable acre on the farm. This issue tells how.

ADVERTISERS will do well to have their strongest copy reach our 22,000 readers in this issue. Send along early and secure our best positions. First forms Feb. 25. Last forms close Monday. 2º h, 10 a.m.

RESERVE YOUR SPACE TO-DAY

Advertising Department

Farm and Dairy Peterboro, Ont.



The Streptococcus

H. Percy Blanchard, Hants Co., N.S. AST week I went up to the town

of Windsor on business; to be particular and exact, to attend the West Hants Farmers' Association. Going into a friend's house, a wild strepteoccus sprang upon me with out any procession, gripped me, and in spite of my efforts we may be a supported by the support of the supported by the supp Going into a friend's house, a wild

waist, Nature put up against him warring creatures big and little. The mighty megalosaurus succumbed be-fore his prowess. Lions and tigers fore his prowess. Lions and tigers disappeared before the might of puny disappeared before the might of puny man. But the streptococcus lingered in the land; yes, and multiplied. In the old China War, some British marines were sent ashore to attack a Chinese fortress on the land side. As they approached the unguarded rear, they were met by a deputation of smiling Celestials with a polite note. smiling Celestials with a pointer requesting the foreigners to please at-tack the fortress from the front; that it never was intended nor built to re-tine the from the rear. When sist attack from the rear. When these streptococcus lay siege to us, it is not sufficient for us to tell them we are "too proud to fight." It will it is not sumcient for the so test them we are "too proud to fight." It will not do for us to say we are not so cowardly as to battle with a foe so small as they. The fact is, we have 1, fight; and more than that, to get licked every time; to be laid out on our back; and to feel as sore and orry as from a tussle with a boa-

Sometimes I think of the first man, Adam, "with dominion over the crea-tures." Unconcernedly he could walk tures." Unconcernedly he could walk about Paradise, the lion and tiger stepping from out his way; the mosquitees and hippopotami alike afraid to touch him with their teeth. Everything in anger avoided him, like dust would dodge the nozzle of a whirlwind. Even the audacious strepto-coccus side-stepped when Adam pass-

So, too, the police and public opin-ion have helped to place below the Cross the weightier sins. To-day a man cannot seize his stone axe and offend his neighbor's skull therewith. It is not allowed to offend his neighbor's skull therewith.
It is not allowed to murder to-day
without a license. One cannot now
grab his neighbor by the throat and
roughly rob him of his cherished
trumpery. It is not allowed to-day
to take another's goods against his will, take another's goods against his will, and without payment, and do it honestly, unless, perchance, he is a financier, or some character particularly beloved by the land. All of the great leviathans of the moral world are slain (except Enoch, the great leviathons of the moral world are slain (except Enoch, the great leviathons of the great leviathons of the great leviathons with the greathons with the gr land monster, so says Henry George), but the pigmy streptococcus still sur-vives. The bank clerk who handles millions with impunity to his con-

science is needlessly cross to the chil-dren at home The politician who scorns the junkets and caresses of the railroad magnates forgets his pledges on the problibition question, and even speaks unkindly of his fellow-members on the other side of the House. The farmer indignantly refuses to put up his price to the extortion rate of a dollar a barrel for potatoes, yet ruins his reputation for honesty by putting his reputation for honesty by putting all the little spuds on the top where they show. We even find, by careful and kindly searching, in the minister's robe of righteousness the tell-tale moth holes, where the little strep-tococcus has been getting in his licks. What a different place to live in, when this old world gets round in, when this old world gets round again to the time when man will once more have "dominion over the creatures," and grip and its attendant streptococcus will be no more. Soon

The Ontario Corn Show

THE Ontario Corn Show held at Chatham last week, was a success from every standpoint—attendance, exhibits and lectures. "The standard of corn exhibited this year is gratifying," remarked Mr. R. W. Kanister, of Comber, president of the Corn Growers' Association. "Taking into consideration weather condi-tions, which the farmers have ex-perienced, every credit is due to them for the excellent display, they are making. There are more racks this year than in any previous year, and they are all well filled." There are more racks this

shey are all well filled."

The exhibit of the Kent Centre Farmers' Club staged right in the centre of the curling rink, was the feature of the show. On the exhibit platform was a model farm, complete in every detail. On the arches over the exhibit the following mottoes were displayed in corn: "The Alliefor Truth and Liberty." "Corn is King in Kent county." Wall of Sawe Our King and country." While this was the central feature, there were many other artistic exhibits made of corn, outside of the competition classes.

made of corn, outside of the compe-tition classes.

Prof. R. A. Moore, of Wisconsin, judged the corn exhibits and also the seed grain. One of the most valuable features of the whole show was the corn judging competitions, which were also conducted by Prof.

Prof. C. A. Zavitz spoke on "The Cultivated Crops of Ontario." These he classified as corn, roots, beans and potatoes. After speaking of ro-tation, fertilization and seed selec-tion, the speaker scored the corn and potatoes. After speaking of ro-tation, fertilization and seed selec-tion, the speaker scored the corn growers on the quality of some of the seed they were sending out. In tests of selected seed corn made at the Ontario Agricultural College, onlo-tiest steader, came up to the exac-tandard. "You have standardired your seed corn," he urged, 'but that is not all. You must live up to the standard. "The present 'the regarded as an excellent opportunity for de-veloping the production of root seed in Canada as the European supplies have been cut off. To illustrate the superiority of home grown seed, Prof. Zavits tated that on an aver-age, he had secured 111 plants for 100 clusters of mangel seed sown as against 81 per 100 for imported seed. The Martitime Gorn Domand. The Maritime Corn Demand.

S. J. Moore, of Truro, N.S., told the corn growers what Nova Scotia wanted in the corn line. When silos were first built in that province, they grew the old Yellow Canada corn, producing eight or nine tons of ensilage to the acre. Now from a subheatine of news cast water the control of the ensitage to the acre. Now from a combination of peas, oats and vetches, they can secure a yield of 11 to 13 tons of ensitage to the acre, with eight per cent more dry matter than (Concluded on page 8.)



VOL. XX

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FANNING

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chaff and bro were utilized its primitive the winds cleaning nt of the wea miform blast, tter work ar The earlies ills were dep o their work, und to be an ting large, 1 nall impurit eight, or hea Nowadays ot only do al ey also clear ss perfectly a spite of that ably more ne ng mills than We use fani veral purpose To remove s

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Trade increases the wealth and giory of a country; but its real strength and stamina are to be looked for among the cultivators of the land, -Lord Chatham.

VOL. XXXV.

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PETERBORO, ONT., FEBRUARY 17, 1916

No. 7

The Fanning Mill: Construction, Purpose and Use

It Has Its Place and Will Pay Its Way on Every Farm Where Seed Grain is Produced

PANNING mills have undoubtedly been in use for a longer time than most of our modern farm machinery. They were used long before threshing machines as the final stage of threshing by the flail, to separate the grain from the chaff and broken straw. The natural breezes were utilized before for that purpose. Even in

its primitive form it was a great improvement the winds of heaven as it made cleaning operation, independent of the weather, afforded a more miform blast, and therefore did etter work and more rapid work.

The earliest types of fanning nills were dependent on the fan to o their work, but sieves were soon ound to be an advantage on separting large, heavy impurities and impurities of the same seight, or heavier than grain.

Nowadays threshing machines ot only do all the threshing, but hey also clean the grain more or ess perfectly at the same time, but spite of that we have to-day proably more need for efficient faning mills than ever before.

We use fanning mills now for veral purposes:

To remove straw, chaff, stones,

To remove shrunken, light, or mature seed. To grade the good seed accord-

g to size and weight. To remove weed seeds and other reign seeds.

No one will question 'ne necesty of removing large, coarse imurities; few but will agree that all shrunken, nmature seed should be removed before sowg. Such seed produces weak plants, plants at are unable to withstand unfavorable contion.

Is it worth while grading seed grain? Will it ay to remove all but the heaviest perfect rains? To answer this, let us look first at the atomy of a seed. Roughly speaking, we find o parts-a miniature plant and a supply of

od. After germination the early growth of e young plant is dependent on the food supply the seed. A small supply of food is earlier hausted than a large supply. If soil conditions e unfavorable, the food supply may not be fficient to maintain healthy growth until the ant can feed itself from the soil. The more favorable the soil and seasonal conditions, the eater the difference we would expect in favor large, plump seed.

An address at the Provincial Winter Pair, Guelph,

PROF. JAMES MURRAY, MACDONALD COLLEGE

Let us now look at actual trials, which, after all, are more to the point.

Experiments With Oats Chio Experiment Station-average of 7 years: Heavy seed 46 bus. per a re

Medium seed 45 bus. per acre

The Great Corn Palace at the Sioux City Corn Show in 1891 Ontario is developing a "corn beli" in her south-westen counties and recently at Chat-ham was held the Ontario Corn Show, an institution yet in its inflace; To visitors at that show the Illustration herewith will prove instereding a large of the Corn Palace at the great Corn Show held in Sioux City, Iowa, away back in 1991. Here for the Mining in which the show was held was completely covered with corn. Farm 2nd Dairy is in-debted for the shotograph to Mr. James Gow, of Hamilton, Ont.

Light seed 43 bus. per acre Kansas Experiment Station-average of 8

Heavy seed 3i bus. per acre Medium seed 30 bus. per acre Light seed 28 bus. per acre Minnesota Experiment Station: Heavy seed 64 bus. per acre Light seed 65 bus. per acre

Guelph-average 7 years: Heavy 62 bus. per acre Medium 54 bus. per acre Light 46 bus. per acre

A. Macdonald College we have not had much difference between large and medium seed, but both have given a decided difference over small weight seed.

Experiments With Wheat

The Indiana Station reports a difference of 216 bus. greater yield from large than from small seed.

At Guelph, with spring wheat, five bushels more were harvested from large than from small, and with winter wheat nine bushels more.

Similar experiments at Nebraska, North Dakota, and Macdonald show that heavy seed is much better than light.

These figures bear out what we might expect from an examination of the seed itself. They

demonstrate the value of well cleaned seed over poorly cleaned seed, they vindicate the use of the fanning mill.

But there is a second reason for cleaning grain, if anything more important than the one mentioned, that is the removal of weed seeds. It is well recognized that we clean grain for this purpose, but I would like to quote a few figures to show how poorly we live up to what we know. For the figures I am indebted to Bulletin No. S9, issued by the seed Branch of the Dominion Department of Agriculture.

In the spring of 1913 the Seed In spectors collected upwards of 4,000 samples of grain that were actually being sown in different parts of Canada to ascertain just what kind of seed was being used. The first step toward improving seed is to know the quality of that in use.

Oats, 978 samples: Of these 431, or 44 per cent., were free from noxious weed seeds. 118, or 12 per cent., were free from weed seeds: 44, or 42 per cent., were free from seeds of cultivated plants or pure oats. The sample having most

noxious weed seeds had no less than 4,838 per pound-it had been cleaned with a fanning mill and still contained enough to sow 2,000 weed seeds per sq. rod. This sample came from Leeds Co., Ontario.

The sample with most weed seeds, having no less than 7,136 per pound, or enough to sow 3,000 per square rod, came from Quebec. Average of all samples would sow the square rod 44 noxious weed seeds and 138 others.

Barley, 408 samples: 174 samples, or 43 per cent., free from noxious weed seeds; 56 samples, or 14 per cent., free from weed seeds; 13 samples, or 3 per cent., free from seeds of other cultivated plants. Worst sample contained 2,539 noxious weed seeds per pound, or sufficient to put 3,000 on each square rod. Average of all samples, 32 noxious and 270 other weed seeds per square rod.

Spring Wheat, 506 samples: Worse than either oats or barley. Worst sample contained 11,528

weed seeds per pound, or enough to sow 8,600 per square rod at 11/2 bushels per acre. From Ouebec-home-grown seed sown without cleaning. Average of all samples: 50 noxious and 220 other weed seeds per square rod. These figures show how much work still remains to be done by good cleaning machines. Why is the work not done better?

1st. Many farmers have no fanning mill and do not clean their grain. Let a farm be as clean and well cultivated as it may be and the crop grown a good one, it is still a fact that cleaning the seed will soon pay for a good cleaner. A fanning mill costs, say, \$30; a man needs to make only \$1 an acre on 30 acres to pay for the machine. The figures quoted show that this can easily be done any year, and in many cases \$2 or \$3 an acre.

There are many machines that it is doubtful economy for the small farmer to buy, but there can be little doubt of the fanning mill.

The poorly equipped fanning mill is respons-

ible for a lot of inferior and dirty grain being sown. All mills are not well equipped with screens when they are bought, extra ones have not been secured, or as is often the case, the mills have been in use for 15 to 40 years, and few screens remain. Without a proper complement of screens it is impossible to do good work. A mill equipped originally to separate chaff and wheat will probably be of little use in cleaning some of the up-to-date mixtures and with an old mill particularly it is frequently difficult to get new screens. Another difficulty in the way of securing a proper equipment is the lack of information as to what kinds to buy to do certain work. To buy a number and experiment is too expensive, so that the mill is frequently allowed to do the best work it can with a small range of screens

Even with a good assortment of screens in good repair, many machines do poor work on account of not being adjusted and operated to the best advantage. The selecting and adjusting of screens warrants more attention than it ordinarily receives; and a little time spent in trying out various screens independent of the instuctions accompanying the mill will usually well repay for the trouble. In operating, nothing is of greater importance than the air blast, as it is the scale by which is weighed the heavy and light seed. It should be strong enough to carry over the back all light grains, big or little, and not too strong to blow over much good grain. It is particularly essential that the blast be regular. If the speed is reduced even momentarily, lighter grains are sure to fall where they do not belong; if too strong, there will be a loss of good grain. Where gasoline or electric power is available, it will prove more satisfactory than the steadiest man power.

Capacity of Milling Secondary

The capacity of a mill frequently gets more attention than it deserves. All other things being equal the mill that will clean faster than another is the better mill, but in seed cleaning, speed is of secondary importance. Efficiency is of much greater importance. Take oats, for example. It takes say 20 bushels for a 10 acre field; we expect a yield of 50 bushels per acre or \$20 worth of oats, or \$200 from the field. A fast mill will clean the 20 bushels required in 15

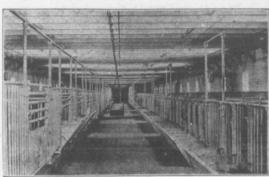
(Concluded on page 7)

The Value of Variety in Crop Production

And a List of Varieties that have been Proved the Best for Ontario Canditions PROFESSOR C. A. ZAVITZ, GUELPH, ONT.

HE farmer who does not secure the very best varieties of crops for his farm is certainly living below his opportunities. There is at the present time but little excuse for the farmer who is not wide awake to the value of the varieties which will best meet the conditions of the system of farming which he is carrying out. The experimental work at the Ontario Agricultural College, the system of cooperation of the Experimental Union, the organization of the Canadian Seed Growers' Association, the plans of the Agricultural Societies and other factors are helping to make it comparatively easy and to give the best encouragement for the production of only the very best varieties.

In nearly all classes of farm crops there are



The Interior of the Calf Barn at Colony Farm, Essendale, B. C.

far too many varieties grown on the farms of Ontario. The number should be cut down as much as possible, and only the very best ones used. Great care, however, should be taken to know the varieties which will give the highest returns where they are to be grown. It is only possible to refer to a comparatively few varieties at this time. Many of the leading kinds under cultivation in Ontario at present were first tested at the Ontario Agricultural College and afterwards introduced over Ontario through the medium of the Cntario Agricultural and Experimental Union. Some of these varieties originated at the College, others were secured in Ontario, and still others were imported from different countries. Particular attention is drawn to the following outstanding varieties:

O.A.C. No. 72 and O.A.C. No. 3 varieties of oats; Mandscheuri and O.A.C. No. 21. barley; Dawson's Golden Chaff and Imperial Amber winter wheat; Mammoth White winter rye; O.A.C. No. 61 spring rye; Common emmer; Rye buckwheat; New Canadian Bezuty and Early Britain peas; Pearce's Improved Tree beans; Hairy Vetches; Early Yellow soy beans; White Cap Yellow Dent and Wisconsin No. 7 Dent corn; Salzer's North Dakota flint corn; Golden Bantam sweet corn; Early Amber sorghum; Ontario Variegated and Grimm alfalfas; Yellow Leviathan mangels; Empire State, Davies' Warrior and Extra Early Eureka potatoes.

The Marquis spring wheat and the Arthur variety of field peas obtained from the Central "A portion of an address by Prof. Zavitz, at Guelph Winter ar, December. 1915. Experimental Farm at Ottawa have each made good records in the experiments at the College. and the former in the cooperative experiments throughout Ontario. The Marquis variety exhibited at this Fair received the Spring Wheat Championship, The Ouebec No. 28 variety of Flint corn, and the Quebec No. 92 variety of Sov beans, both from the Macdonald College in Quebec are promising.

The season of 1915 was a very peculiar one for crop production in Ontario. The summer was normal season, however, important lessons were obtained through experiments with farm crops. It is interesting to note that at the College the O.A.C. No. 27 variety of oats gave a yield at

the rate of 103.5 bushels and the American Banner of 92.8 bushels per acre. In each of the past nine years in which these two varieties have been grown under similar condition the O.A.C. No. 72 has surpass ed the Banner in yield per acr in each year, the average for the whole period of nine year, for the former being bushels, and for the latter 72.5 bushels per acre.

Of the early varieties of oat O.A.C. No. 3 gave a yield of 76 and the Daubeney 73.5 bushels per-acre in the pas season. In each of the pa nine years the O.A.C. No. surpassed the Daubeney yield of grain per acre, except in 1914. The average results i bushels per acre per annum fo the whole period shows a vie of 82.2 for the O.A.C. No. 1 and of 74.6 for the Daubene

Varieties of Barley

In the barley experiments at the College throughout Ontario the O.A.C. No. 21 still of cupies highest place in yield of grain per aca This variety has become exceedingly popula throughout the province, and is supplanting nearly all other varieties, even the Mandschen which the College introduced about 25 years ag and which has done so much in the improvem of barley growing in Ontario. It is now es mated that about 96 per cent. of all the bar which is grown in Cntario belongs to Mandscheuri or the O.A.C. No. 31 varieties. the 40 entries of barley at the Provincial Fa not a single name occurred except the O.A. No. 21. According to the report of the Bure of Industries for Ontario the yield of barley p acre for the past 16 years as compared with t 16 years previous has had an increase of about This increase in yield per a per cent. throughout Ontario for the last period as o pared with the first period of 16 years wor amount to about thirty-five million dollars, sufficient to maintain the Ontario Agricult College at its present cost of maintenance approximately 190 years.

Desirable Potatoes

The potato crop in Ontario in 1915 was t lowest of any year since 1882, the average being only about 73 bushels per acre, according to latest reports. The results of the experiments the College for the past year are very interest

(Concluded on page 13)

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The Main Farm Buildings in Connection with the Saskatchewan Agricultural College at Saskatoon.

Dairying at Government Farms

HERE are ten government institutions in the province of Ontario with which farms are connected and at which dairy herds are kept. For the year ending Nov. 1st last, these 10 farms carried 394 cows, which produced 3,102,671 lbs. of milk with an estimated market value of \$60,000. The most noteworthy fact about these government herds is the high average production. Evidently M. S. E. Todd, under whose supervision these herds are, has not allowed politics to play any part in the management of his department, at least politics have not been allowed to infringe on the efficiency of the cows. The following table tells its own story:

Institution at		Number Cows	of Total Production	Average Production
Brockville		48	314,101	6,544
Guelph		.78	724,473	9,288
Hamilton		64	517,131	8.079
Kingston		27	177,433	6,572
London		34	290,923	8,556
Mimioo	** ** **	34	191,296	5,623
Orillia		28	261,255	8,973
Woodstock		24	233,181	9.883
Penetang		22	156,238	7,101
Whitby		35	246,761	7,050
Fight of the		to non	Holetet.	man Ann

ight of these herds are Holstein grades. with the exception of a few pure-bred cows at Hamilton. At Penetang Ayrshire grades were kept and at Whitby, milking Shorthorns. These figures reflect credit on the management of the herds, when it is considered that in the averages two-year and three-year-old heifers are included. The improvement that has been obtained through intelligent selection and breeding is strongly evidenced at Guelph, where four years ago the highest yield from an individual cow was 9,000 lbs., while last year the average for 78 cows was 9,288 lbs., and individual cows produced 12,616 lbs.; 12,388 lbs.; 11,997 lbs.; 11,472 lbs., and 10,168 lbs. A minimum production for the year has now been set at 9,000 lbs. Four cows at Woodstock averaged 14,673 lbs.; 12,838 lbs.; 10,402 lbs., and 10,149 lbs. respectively. At Hamilton, where there are more pure-bred cows, three cows produced about 13,000 lbs. each and two cows over 10,000 lbs. each.

It is now intended to change the Holstein herds that were at Brockville, Woodstock and Orillia to Shorthorn grades. The Shorthorn grades will still produce sufficient milk for these respective institutions, and the calves will be used for stocking a ranch to be opened in connection with the Industrial Farm in the Sudbury district.

Managing the Winning Herd

Jas. Burton & Son. Elgin Co., Ont.

E are requested to give our methods with our dairy herd, which won first in the herd competition conducted by the Western Ontario Dairymen's Association.

We weed out the poorest cows every year, replacing them to the best of our knowledge with better ones, but we have never paid high prices, not more than \$90. Although we keep a good

pure-bred sire we do not raise any calves, but keep him for the sale of them

When the cows freshen in the spring we always have sugar beets to feed them along with their ration of chop, made up of corn and oats, but generally give them bran mash for a few days when first freshened to bring them to their milk. We always keep our cows in the stable until at least May 24th, for we think if turned out before, it does not give the pasture a good enough start to last during the remainder of the season.

After being turned out about a week we take the grain away from them. By that time they are used to the grass. We do not give them any more grain until the pasture begins to dry up. About the middle of July or the first of August we start feeding them bran, giving them two quarts each twice a day until about the 1st of October, when we mix with the bran a third oat chop, giving them about three quarts the remainder of the season. During the season we did not give them any extra green fodder, but tried to give them a change from one field to another every few days.

We generally have them dry up about the first of the year and have them freshen in February and March, having them dry from six weeks to two months.

Rearing Calves McKay's Way Geo. McKay, Perth Co., Ont.

HAVE read several letters on calf-rearing, which I was pleased to see as the experience of others is always helpful when the prices of milk and millfeeds are high and good results important. Many men have many experiences, but here is mine. I believe a man should consider the finish before he starts to do anything, and if you cannot see something for your trouble you had better not start.

In the spring of 1911 I bought my first purebred Holstein heifer calf, and wanting to grow as good a cow as possible and as cheap as possible, this is the way I proceeded and the results. I brought her home at about a week old. I started her on five lbs. of fresh warm milk from the cow as soon after milking as possible twice a day. I kept clean fresh water in a clean wooden pail before her all the time, with salt in the one end of the manger away from her feed and water

When I went to feed her the milk I took a small handful of the meal I was feeding the cows, which was bran, oats and oilcake, equal parts by weight, and as soon as she was finished drinking I rubbed it on her nose. She soon learned to eat it out of the manger. When she was about three weeks old she was eating nicely. I then began to put some finely pulped roots in with the meal, and from that on I fed her all the meal and roots and hay she would clean up. I then began to cut down the milk until at about four weeks she was getting only 21/2 lbs. twice a day as warm from the cow as possible. I never saw any sign of scours or indigestion, and there was no time lost making gruel; besides I don't believe it is good for the calf to swallow down meal either cooked or raw without chewing, as half the digestion takes place in the mouth.

She was loose in a box stall, so took plenty of exercise. She was never out the first year. As soon as the new corn came in she had all she wanted of it, and new roots, and the best clover hay I had with all she would clean up of the same kind of crop until about June 1st, 1912. She was then turned out on good pasture when her milk and chop was discontinued until the fall, when she would come in at nights with the cows. I then began to feed her the same kind of meal and the same kind of feed as the cow had all winter. I like the bran, oats and oilcake as it seems to keep them in fine condition and is a good muscle and bone builder.

She grew fairly well, considering who fed her. I bred her so as to freshen at about two and one-half years, and to-day I don't know what she weighs, but her heart girth is six feet eleven inches

I might say her best milking her first year was about 48 lbs. a day, her next year she beat 60 and I hope this year to see her do better. I believe if you stunt a calf's growth you stunt its good qualities too, and a small dried up runt of a cow is certainly a disgrace and a loss to any dairyman.

Our idea of an obstinate man: A motorist with his car stalled in a snowbank, but still declaring that there is now no place for the horse.



Live Stock at the Saskatchewan College. Shorthorns, Ayrshires, Holsteins and Jerseys Are All Represented.

130-Egg Incubator and Brooder For \$13.90 If ordered together we send both machines for only \$13.90 and we FRYIGN pay all freight and duty charges to any R. R., station in Canada, AND SUT We have branch warehouses in Winnibez, Man, and Toronto, On.



Write as today. WISCONSIN INCUBATOR CO., Box 234, Racine, Wis., U. S. A.



Horse Barn

Maring carried the execute to the required height, the used step in in third the weeken experiencement. While the concrete is shall seek about

3

Proportion for sources solution should be 1.0% 5.





Get This Free Book

It contains 150 pages like those shown here-116 pages give practical instructions for improving your farm, explaining the most economical way to construct all kinds of buildings, walks, foundations, feeding-floors, walls, troughs, tanks, fence-posts, and 45 other things needed on every farm.

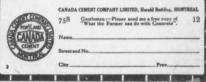
There are 14 pages of information vital to every farmer who intends to build a silo. 22 pages show what concrete is; how to mix it; the tools needed; what kind of sand, stone and cement are best; how what aid of sand, stone and cement are best; how to make forms; how to place concrete; and reinforce it, etc., etc. In fact it tells everything necessary to know about the world's best and most economical building material - Concrete.

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If you haven't a copy of this valuable book, one will be sent to you free. Simply fill in coupon below and mail today. CANADA CEMENT COMPANY LIMITED,

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Eggs as They Are

THERE is only one kind of egg in demand for the highest class of trade,—Specials. The average 30-dozen case of eggs that comes in from the country, grades out about as follows:

as follows:
Specials, none; Extras, 4½ doz., 18%; No. 1's, 9 doz., 30%; No. 2's 10½ doz., 35%; Cracked and dirty, 4½ doz., 18%; Bad (unfit for food) 1½ doz., 3%.

49% 0075, 1979; billy doz, 5%.

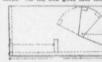
This analysis was announced in connection with the poultry display of the Live Stock Branch at the recent Guelph Winter Fair. It indicates big room for improvement in the quality of country eggs.

Easily Constructed Trap Nest

THE two diagrams herewith will give an idea of the construction of the simple trap nest that is being advo-cated by the Poultry Depart-ment of Mac-donald College. The nest has

comparttwo ments. The

rear compartment. The door is made in the type of a hollow cylinder and is covered with a wire of fine mesh. It is balanced in the first compartment. As the hen goes into the sec-



ond compartment her back touches

ond compartment her back touches the back of the quarter-vilinder door throwing it off its balance so that it closes. The hen of course must remain within until released.

The main structure of the nest is a rectangular box 14 inches wide, 12 inches high and 24 inches e.e..

Other details in the construction may e gotten from the diagrams pub lished herewith.

The Diseases of Poultry

CONSTANT source of loss in the poultry yard are the discass which occasionally play havoe with both chicks and laying birds. So wide apread are the losses through poultry diseases that it is safe to say that considerably more than 80 per cent. of the correspondence of those engaged in poultry work in the agricultural colleges and experimental stations relates to poultry diseases.

The latest addition to the many books that have been written informations. CONSTANT source of loss in

The latest addition to the many books that have been written informing poultry men on the recognition, cure and future prevention of disease, is entitled "Diseases of Poultry" and is edited by three of the best known poultry men in America,—Raymond Pean Frank M. Surface, Raymond Fean Frank M. Surface, and the surface of the best form of the surface of the best form of the surface of the best form of the surface of the surf Agricultural Experiment Station, a station that has probably conducted more constructive experimental work with poultry than all other stations combined. This book is published by the MacMillan Company of Canada and may be had through Farm and Dairy at the regular publication rate of \$2. It covers every phase of the subject exhaustively in \$42 pages of printed matter.



Peerless Poultry Fence is closely woven. It's a real protection to not only large fowls, but chicks as well. They can't get through. Neither can harm get through to them. For

Peerless Poultry Fencing

is not mere poultry netting—it's real fencing. Every intersection of wires is securely locked together. They can't slip or get loose. It is made of Open Hearth steel wire with all impurities burned out and all the strength left in. Well galvanized. Top and bottom wires are extra the contract of the co

Send for catalog giving details.
t also describes our form fencing,
gates and ornamental fence. Agencies almost every-where Dealers wanted in unassigned territory.

The Banwell-Hoxie Wire Fence Co., Ltd. Winnipeg, Man. Hamilton.







Febru

The

or 20 mir for 20 m Twenty-f might tal ing of 50 field of of paid for to or even and a libe It looks li least Take

Take seed. Alf from 20 c 40 cts. a ing very hour the quickly ar 20 per ce only \$96. even noth Efficiency Con

Next to more impo that will s will give g of years as a season of mo screens tha but if one it is all of one part is Simplicity The ideal n of adjustme quire a m machinist t

cessful oper volve some the most or experimenti vice. For chines are readily be h and the ad outfit is not for the pow of the seed oup here and

try under C.S.G.A. reap the ac through beir quantities a uniform qua cult to get on a large different soi tions of mar ences are ac grain cleane men with po makes of fan centre had a centre had a equipped wit and all seed ervision of or could be min ment wrough

Operation When we c methods of cl with certain various mixtu paucity of da when bough more or less operating, by only very incleading, and in practice. ment of screen ciently comple finer separation

The Fanning Mill : Production and Use (Continued from page 4.)

or 20 minutes, or the time of two men for 20 minutes is worth how much? Twenty-five cents? A slow machine might take an hour to clean 20 bushmight take an hour to clean 20 bushels. At the same rate per hour this
time would be worth 25 cts. A saving of 50 cts. on the seed for a 10-acre
field of oats: And what is the price
paid for this saving? I tray be two
or even 10 bushels of oats per acre
and a liberal sprinkling of wed seeds.
It looks like poor economy to say the

te another example — alfalfa Alfalfa seed is worth anywhere from 20 cts, to \$1 a pound—call it 40 cts, a pound. Even when operating very slowly at five bushels an hour the value of the seed that is cleaned is \$120. If put through quickly and imperfect work done, the quickly and imperiect work cone, the market value may easily be reduced 20 per cent. or to instead of \$120, only \$96. It may be worth less or even nothing. Speed is important. Efficiency is the primary considera-

Construction of the Mill

Next to efficiency few things are of more importance than the construc-tion of the mill. We want a machine that will stand up to the work, that will give good service over a number of years and not fall to pieces after a season or two's work. This is probably more important with the screens than the balance of the mill, but if one part is well built usually it is all of good construction, and if one part is shoddy it is probably all imitation.

Simplicity is another requisite. The ideal machine is one that is easy The ideal machine is one that is easy of adjustment, one that does not require a mechanic to operate or a machinist to repair. The most successful operation of any mill will involve some experimental work to get the most out of it, but it should not be necessary to spend time in the most out of it, but it should not be necessary on spend time in experimenting to spend time in experimenting to the part has been as a specific. For the most part hand machines are best for did not a specific and the specific and the specific and the additional cost of a power outfit is not warranted by the better work they do. But there is a place for the power machine in the hands of the seed centres that are springing up here and there through the country under the supervision of the up here and there through the country under the supervision of the C.S.G.A. These seed centres will reap the advantage of organization through being able to supply in large quantities a good grade of seed of uniform quality. Uniformity is difficult to get where the seed is grown on a large number of farms with different soils under varying conditions of management. These differences are accentuated by having the grain cleaned by a dozen different erices are accentuated by having the grain cleaned by a dozen different men with possibly a dozen different men with possibly a dozen different men with possibly a dozen different makes of fanning mills. It each seed centre had a central cleaning the desire that a central cleaning the desired properties of one man, these differences could be minimized. The improvement wrought in the grain would amply justify the expenditure.

Operation lefer-set-

Operation Information Lacking When we come to consider specific When we come to consider specific methods of cleaning grains and seeds with certain impurities or separating various mixtures, we find a startling paucity of data. Most fanning mills paucity of data. Most fanning mills when bought are accompanied by more or less detailed instructions for operating, but these fact of the not only very incomplete, but often not only very incomplete, but often leading, and do not always woo made to be a companied on the companied of the compan om page 4.)
give any advice regarding the screens
required for particular work. There
appears to be a demand for information along these lines, and we now
have under consideration and hope to
be able to carry through a plan
whereby we can get some data on this
supportant subject. What we require whereby we can get some data on this important subject. What we require is data that will enable us to say just how each make of fanning mill can best be adjusted for each specific job. This information can be got only by experimenting with each ma-chine and with a great variety of ohip by experimenting with each ma-chine and with a great variety of material. It should be valuable both to those who manufacture and to those who use the mills.

A Productive Dairy Farm

N a recent report Mr. A. D. Mc-Intosh, District Representative for Intosh, District Representative for Hastings Co., Ont., reports on a productive farm in his county. How many can equal or excel this record Mr. McIntosh writes as follows:
"Mr. Townsend, of Lot 12, con. 8, Thurlow, on whose farm is situated

Mr. McIntosh writes as follows:

"Mr. Townsend, of Lot 12, con. 8,
Thurlow, on whose farm is situated the largest and most successful cooperative piggery in Hastings Counperative piggery in Hastings Counperative piggery in Hastings Counput of his particulars of the outcounty of the particulars of the outonly about a ton of, feed not support of the particulars of the outon the place. He also sold \$600 worth of hogs, \$800 worth of hay still for sale, with enough enslige hay and grain to winter his entire stock. On experimentation he is going to experimentation to a somewhat extensive way with the us somewhat extensive way with the us and barns and auto, we are pleased to note that Mr. Townsend is not only making money, but is enjoying himself in progressive agriculture."

"Metallic" Corrugated Iron Barns are Lightning, Fire, and Weather-Proof

Lumber and labor are too expensive to be used in farm buildings; besides, wood buildings are easily destroyed by fire and lightning. "Metallic" Corrugated Iron makes buildings that last a life-time; that are warm and dry, and proof against fire, lightning and weather.

Costs Less Than Lumber You save money on labor and lumber when you use "Metallic" Corrugated Iron. Write for complete information before you buy any building material. We can save you money. Our corrugated iron is made in galvanised or painted sheets, straight or curved.

THE METALLIC ROOFING CO., LIMITED TORONTO King & Dufferin Sts.



ANDEE CAST INON BROODER

lake a Safe Start

Central Experimental Farm, Ottawa. Prof. F. C. Biford is Dominion Poultry Huabandman for the Canadian Government. The Canade commons to worth knowing about. Reports of Ottario and British Columbia as well as all parts of Canada Colory Brooders and Striction with the Contiburaing Cender Colory Brooders and Canada Can

PARAS BARBES PARAS



We Weave Our Conscience Into Every Rod of PAGE FENCE

m.tter of conscience and good business. We could make more profit per rod if we didn't build fence to last—but it's the durability of our fence that has built up the biggest wire fence business in Canada.

There are so many ways a fence manufa turer can "akimp"—a little lighter wire for the locks; a little lighter galvanizing; a wire slightly under full gauge—and the money-making true light. making track is done

But the get-rich-quick Fence House has a hard time getting a hearing where Page Fence is known. For the name "Page" h.s come to

that its reputation far outweighs the temp

As a matter of fact, Page prices are down to the fine point—down as low as you dare pay if you want a fence that will last. They've been brought down by large output and our

If you want "lifetime" fence at the price of ere ordinary fence send your next order to Page. By writing the Page branch that is nearest to you, you will get immediate ship-ment with freight prepaid if your order amounts to \$10.00 or more.



We cannot make ALL the fence-

so we "make the

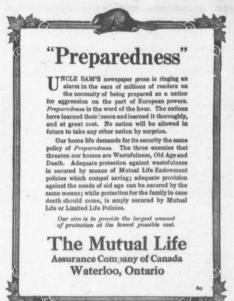
best of it."

PRICE LIST Spacing of Price in Old

THE PAGE WIRE FENCE COMPANY

ALL FULL No. 9 GAUGE

TORONTO.







Dominion Grange Speaks for Farmers

HE members of the oldest farm-THE members of the oldest rathers' organization in Canada, the Dominion Grange, held their 41st annual meeting in Toronto on February 1st. Two sessions were held, one ary 1st. Two sessions were held, one in the afternoon and the other in the evening. The afternoon session was especially well attended, about 50 delegates being present, representing nearly as many organizations. A feature of the gatherings, different from those of the United Farmers of Ontario, which met the following two days, was the presence of ladies which added considerably to the in which added considerably to the in-terest in the gathering and to its pleasant character.

The Dominion Master, W. E.

The Dominion Master, W. E. Wardell, of Middlemarch, gave a history of the Grange since its organiza-tion in the city of London in 1874, and showed the effect that it has had and showed the effect that it has had in influencing legislation of value to the agricultural interests. The good work being done by the United Frencers' Cooperative Company was commended. Local Granges were urged to appoint press committees in order to keep their work before the public. The building up of the order and the

The building up of the order and the preservation of the ritual was urged.

Secretary J. J. Morrison referred to the good work that had been done by the Grange in the organization of the United Farmers of Ontario, allied with which was the United Farmers' Cooperative Company, Limited. He asked the members to consider what the ed the members to consider what the attitude of the Grange in the future should be to these new organizations and to decide what their special sphere of work should be if it was decided to continue the Grange as a separate organization. 43 Granges in good standing, of which 12 had affiliated themselves with the United Farmers of Ontario, aving 22 affiliated with the Dominion

Grange.

The statement of receipts and expenditures showed total receipts of \$292.40, expenditures of \$208.63, and a balance on hand of \$34.27. A deficit from 1914 of \$30.93 and a note ficit from 1914 of 830,39 and a note of \$100 and interest had been paid, leaving a debt of \$70,73, not including the payment of delegates' rali-way fares, which would have to be provided for. Later a number of the delegates pledged their granges to contribute to a fund to whe out this balance on the coder with a balance of the code of the c

Officers Elected. The following officers were elected:
Master: J. C. Dixon, Moorefield,
Ont.: Overseer: Jno. Carswell, Palmerston; Secretary-Treasurer: J. J. Morrison, Arthur; Chaplin: Wm. McCrae, Guelph, Ont.; Lecturer: Henry Glendinning, Manilla, Ont.; Steward: Percy H. Sanderson, Dresden, Ont.; Assistant-Steward: W. E. Lesson, Aylmer, Ont.; Gate Keeper: Jno. Pritchard, Gorrie, Ont.; Ceres: Miss. M. Thompson. Palmarston. merston; Secretary-Treasurer: Miss M. Thompson, Palmerston, Ont.; Pomona: Miss E. Gilbert, St. Thomas, Ont.; Flora: Mrs. J. D. Pound, Aylmer, Ont.; Lady Assistant Steward: Miss Dora Futcher, Middle-

march.

Executive Committee: W. E.
Wardell, St. Thomas, Ont; Jno.
McArthur, Holstein, Ont; Judson
Austin, Simcoe, Ont., with the Master
and Sccretary, Audions: T. H.
Adams, Essex, Ont; Jos. Goodwin,
Palmerston, Ont.

Social Features.

The evening gathering was largely social in character. Addresses were given by several members, in which the opinion was expressed that the Grange should continue its work as a Grange should continue its work as a separate organization while cooperating with the new organization, the United Farmers' of Ontario.

The ritual of the Grange is unusually fine and impressive. It was used in the installation of the new officers,

the work being conducted by the ladies present, under the direction of Miss Hattie Robinson, of St. Thomas. The re-organization of dormant granges, especially of those which hold stock in the Peoples' Salt Well, on which considerable profits have accumulated, was urged. Most of the delegates remained over for two days and estemblished the westings of the and attended the meetings of the United Farmers of Ontario.

The Ontario Corn Show (Continued from page 2.)

has been secured from any Maritime province growers will buy seed corn if they can get a variety that will yield 15 tons of well matur-

that will yield 15 tons of well matured ensilage to the acre.

E. D. Eddy, of the Seed Branch, Ottawa, proposed voluntary cooperation between the farmers and the branch for the control of the seed corn grade. He proposed that the corn grade. He proposed that the corn be graded according to quality of ear and germination tests into Extra No. 1 with a 95 per cent ger-mination, No. 1, 90 per cent and No. 2, 85 per cent. Seed corn producers 2, 85 per cent. Seed corn producers will be invited to sign agreements bringing them under the terms of the

oringing them under the terms of the proposal and agreeing to grade and guarantee their corn accordingly.

Prof. Moore, of Madison, Wis., emphasized the possibilities and wast importance of plant breeding. The corn breeding method that he favored was the second of the property of the p ar to the row method of ed was the selection. What may be accomplished by plant feeding he illustrated by his own work in Wisconsin. Sixteen Wisconsin was not regardorn growing state at all. The ental Union was organized e purpose of encouraging seed he purpose of encouraging seed selection. To-day, instead of many varieties, nearly 75 per cent of the corn grown in the State is of two main varieties, and Wisconsin leads main varieties, and wisconsin leads all the states, even the corn growing states of Iowa and Illinois, in yield of corn per acre. Practically whole townships now grow the same variety

of corn. Sweepstakes Winners.

Sweepstakes Winners.

Ganadian Farm Trophy, for heat for asset of Dent corn in the show, A. E. Wisners.

Ganadian Farm Trophy, for heat for a set of Dent corn in the show, A. E. Wisners.

Essex: Farm and Dairy Trophy, best ten ears Filmt corn. L. B. Hankinson. Ayimer.

Essex: In the property of the state of the stat

The Inter-County Live Stock Judg-The Inter-County Live Stock Judg-ing Competition held in commection with the Ottawa. Winter Fair result-ed as follows: First, Lanark county, 1,066 points; second, Stormont, 68 points; third, Lennox and Addington, 599; fourth, Geneville, 578; fith, Frontenac, 688; sixth, Leeds, 681; seventh, Northumberland, 699 points; crighth, 23d das, 799; minth, Fince Notes HE first busy one nce of o during that conventions Farm and D having to do

February

Owing to the ports of the to be deferre Dominio The princip minion Cattle had to do wit pure bred ada, under th breeders' 1915, 216 head were shipped including eigh sheep and 104 shipping these amount collec this deficit wa mittee consist John Gardhou W. A. Dryden Minister grant covering curred. The sa structed to ask Representati ppointed as nal. Preside

stern Fair,

President.

W. Ballantyne tawa, the Pre-Winter F

W. Ballantyne for dairy; East White, K.C., P F. Stephens. 1 Stephens. Mointed General Shorthor Is the Shorth beef is a quinaturally be cattle lore, ned to atten Associatio was place future hop ially Western attended. All remand for stock nhance the po ne executive on an acti luding the ap The usual an rs, \$4,700, the power to ma ial minister etitioned to ap ers to sell live nade or controll f Agriculture a nended that ar n the past auci

e organization resignati d 11,135 being an ership, registra otal \$20,290,89, 1,140,98, and o mounts to the 18,269.48. Our wer, have been mounting to \$1 ash gain for the 64.80 Our means

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Notes from the Live Stock Conventions

HE first week of February was a 1915 by 250; our total membership is busy one for the live stock assonow 2,244. HEE first week of February was a busy one for the live stock assoprovince of Ontario. Fractically all held their annual meetings in Torontoduring that week and a few of the
conventions were reported fully in
Farm and Dairy last week—those
having to do with the dairy industry.
Owing to the lack of space, brief reports of the other conventions had
to be deferred to this issue.

Dominion Cattle Breeders

The principal business of the Do-The principal business of the Dominion Cattle Breeders' Association, had to do with the shipment of cars of pure bred stock to Western Canada, under the auspices of the various breeders' associations. During the pure bred saimals sere shipped to the pure bred ships and 104 cattle. The cost of shipping these animals exceeded the amount collected from the individual shippers by over \$700. How to meet this deficit was the problem. A committee consisting of the President, John Gardhouse, H. V. Smith, and W. A. Dryden, was appointed to ask the Minister of Agriculture for a grant covering part of the loss in-

W. A. Dryden, was appointed to ask the Minister of Agriculture for a grant covering part of the loss incurred. The same committee was instanced to the control of the contr

Shorthorn Breeders' Meet

Shorthorn Breeders' Meet
Is the Shorthorn a dairy animal or
a beef is a question that might not
unnaturally be asked by one unversed
in cattle lore, who might have happened to attend the annual meeting
of the Dominion Shorthorn Breedrox' Association. The dual purpose
was placed on the pedestal as
perially Western Canada,
ing was an enthusiastic one and well
astended. All reported a splendid destrended. attended. All reported a splendid de-mand for stock and to still further enhance the popularity of the breed, the executive was empowered to tarry on an active publicity campaign neluding the appointing of field men to conduct the work.

The usual amount was granted to irs. \$4,700, the committee being givhirs, \$4.700, the committee being giv-in power to make such increases as they might see fit. The various pro-incial ministers of agriculture were petitioned to appoint official auction-ters to sell live stock at public sales, hade or controlled by the Department of Agriculture and that the law be so mended that any auctioner may se-ture a license for the whole province. the a license for the whole province, in the past auctioneers licenses have been issued only for the county and where an outside auctioneer has to be imported to conduct a consignment or dispersion sale his license has had to be paid by the holder of the sale, humning up the financit's standing of the organization, President's Gardons said:

oute said:

"Our resignations for 1918 numberd 11,183 being an increase of 986 over
those of 1914. Our receipts from memsership, registrations books sold 1,140,98, and our cash of 1,140,98, and our cash of 1,140,98, and our cash of 18,299,48. Our disbursements, howwere have been somewhat heavier,
mounting to \$18,781.68, but our net
ash gain for the year amounts to 88,s450, Our membership increased in

To prove the dairy merit of the Shorthorn, Mr. Gardhouse summarized the records entered in record of ized the records entered in record of performance from horizon and the present time. Twelve two control present times are also control present the present two pounds of milk, testing 420 per cent, butter fat; 19 three-year-old cows gave an average of slightly over 6,500 pounds of milk, testing 389 per cent; 6 four-year-old cows averaged 7,100 pounds of milk testing 385 per cent; 38 mature cows averaged over 8,700 pounds of milk testing 380 per cent. The chief officers were re-elected. With the Clydsadela Men

With the Clydesdale Men

The annual report of the directors of the Clydesdale Association of Canada, strongly criticized the methods pursued by the Dominion govern-

ods pursued by the Dominion govern-ment in the purchasing of horses ior military purposes,—"too many mid-dlemen acting between the farmers and the army authorities," "The difficulty in the past," stated the report, "has been the lack of a proper organization for the assembl-ing of horses at central points for in-spection by remount officers of the proper organization should be under the con-trol of the Dominion, an organization should be under the con-trol of the Dominion Live Stock Commissioner."

Commissioner."
The past year the directors reported as being a most trying one for horsemen in general. The demand for horses for military purposes has not yet fully materialized and the purchasing of remounts has not been of afficient volume to see the second of the of sufficient volume to include the surplus lines of horses suitable for the purpose and hence has had little effect upon the Canadian market for heavy horses. A conviction was exheavy horses. A conviction was ex-pressed, however, that before peace is declared, there will be such a de-mand for horses as was never before experienced in Canada, and, as there has been less breeding, this year's foals should grow into valuable prop-erty. Finally advice was given to far-mer to hold on to their brood marea demand for the breeding stock from the Old Country.

the Old Country.

The association contributed toward a fund of 86,000 established by the horse breeders of Canada, toward the purchase of a horse field ambulance, fully equipped for the use of the Canadian forces. The financial statement showed receipts of \$10,318 compared with \$10,709 in the "neceding year. The expenditures lart' year were less by \$4,908 than in the previous year, the figures for the two years being \$11,790 and \$10,778 respectively. Last year the sum of \$5,052 was distributed in grants to the various fairs as compared with \$8,419 in the previous year.

year.
The following officers were elected: President, John Boag, Queensville; Vice-President, William Graham, Claremont; General Directors—
Messrs. William Mccurdy, Napinka,
Manitoba; Walter Scott, Sutton W.;
F. Richardson, Columbus; James Torfor, Markham; T. H. Hassard,
Markham; T. B. Elliott, Bolton; Secretary-treasurer, Mr. J. W. Wheaton,
Toronto.

Fairs and Exhibitions

Fairs and Exhibitions
Many of the delegates to the various live stock conventions also took advantage and the stock conventions of the Ontario Association of the Ontario Association of the Ontario Association of school fairs came in for considerable discussion. It seems in some sections that the school fair is now more important and better patronized than the regular fall fairs and president J. C. Stewart suggested that there should be some way of working them together. gether.

The Farmers' Grain Exchange Strong Vigorous Seed is the Start for a Big Yield

O. A. C. No. 72 Oats

FOR SALE. Good pure seed, true to ome, selected from 1st prize field a year by. Price 80c. sacks free.

SAMUEL G. CARR, R.R. 2, PARIS. Ont.

GOOD PLUMP, CLEAN SEED O.A.C. No. 72 OATS

Carefully weeded while growing, price 90c per bushel. Samples sent on re-quest. 16 oz. Cotton Bags, 30c extra. Bags hold Three Bushels. EDGAR BRODERICK, R. R. 1, EXETER, Out.

GROWN FROM REGISTERED SEED

from 2nd sportation little Stoke—0.4.6. No. 72 Oats. Read carefully hand-picked before being sowed to insure a clean seed—650 per bus.

O.A.C. 20 OATS—grown from seed purchased 2 years ago and carefully hand-common seed of the seed of GOLDEN VINE FEAR—A HIMSTON OF THE SEASON OF T

O.A.C. No. 72 OATS

The best yielding oats in the province in 1915. Have about 600 bushels good, pure, clean Seed Oats of this variety for sale at 75c per bu. Bags free over 10 bu.

C. F. IRELAND WELLINGTON, ONT.

O.A.C. No. 72 OATS

FOB SALE—Good Clean Seed, true to name, selected from prize winning field a year ago. Price 60c per bush.. F.O.B., Woodville. Sacks free.

R. R. No. 4 Woodville, Ont



FOR SALE Everything from an apple tree to a strawberry plant, shade, nut, ornamental and trees, ornamental constraints from the same of th shade, nut, ornamental and evergreen trees, ornamental shrubs and vines, roses, hardy flowering plants, bulbs, asparagus; guaranteed stock at reasonable prices, Catalogue Free (Silver Black Foxes)

Downham Bros., Box J, Strathroy, Ont.

FOR SALE

Clean Seed Earley O. A. C. No. 21 Price \$1.00 per bus.

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We have some fine Wis. No. 7 Seed Corn for sale. This corn is picked from the standing stalk, carefully selected, and placed in our dryer, a building built for that suppose. This method of drying insures the buyer of a fine crop to the corn beliad of the suppose of the corn beliad of the corn beli THE POTTER FARM

R. R. 2, ESSEX, ONT.

Reliable Seed Corn

"The Best is not too good." All my customers were satisfied last year. I want to satisfy more this year. Order early. Supply limited. EDWARD WARWICK RIENHEIM, Out.

-SEED CORN-

We have to offer this year choice rack-cured Seed Corn of many varieties: the only corn to plant this year. After ten years experience we have now the most reliable method of curing seed corn. Write for prices and information to

ST. JOACHIM SEED CORN GROWERS

To the Corn Growers of the Dominion

To the Corn Growers of the Dominion

Not since the year 1879 has there been so little good Seed Gorn grown on the American continent. A continent of the control of the con

is the date of the next issue of our "Farmers' Grain Exchange." Watch it for any seed you may require. Plan to be in it if you have seed for sale.



McGregor of Ford

RECENTLY ONE OF OUR FRIENDS FROM ACROSS the line was standing on the sidewalk in one of our larger Canadian cities viewing a march past of some of our soldier boys. Kilties were going by.

"How typically Canadian are the kilties," he remarked. "We, on our side of the big pond associate the Highland uniform as much with Canada as with Scotland. Why is it?"

The reply was to the effect that it was because the Scotch had contributed so largely to the settlement and upbuilding of the Dominion and so many Canadians of Scottish ancestry had made themselves worthy of high ranks in the history of Canada.

Among these Canadians of Scotch parentage who have won a place among Canada's great builders of industry we must reckon Gordon M. McGregor of Ford, Ont.

About the year 1850 Mr. McGregor's grandparents set out from Glasgow, Scotland, to settle in what was then a new and far away country-Canada.

A few years later we find them located at Sarnia, Ontario, where a son, William, was born.

When still a young man, William McGregor took a very active interest in the business and political life of the country and was elected a member of the Dominion Parliament, serving his country and his district well and faithfully for twenty years.

Gordon McGregor, about whom this is written, was the son of William McGregor, and was born at Windsor, Ont. As Gordon McGregor grew to manhood he capably assumed much of the business cares of his father.

William McGregor eventually became interested in the Walkerville Wagon Co., at Walkerville, Ontario, and, shortly after, his son, Gordon McGregor, was made manager of the firm. son began to show that business foresight that has made him one of the prominent figures in the business world of Canada.

About this time an event took place in the carriage and wagon industry that caused the greatest concern. This was the advent and the establishment of the automobile as a practical vehicle.

Some dealers and builders were so alarmed that they thought their business would go to immediate rack and ruin and that the auto would supersede horse-drawn vehicles entirely. Others were cool-headed enough to see the advantages that this new industry afforded and governed themselves accordingly.

Among the latter was Gordon McGregor, who believed that he could successfully enter upon the business of manufacturing automobiles and looked about him for wise methods of doing this.

He got in touch with many manufacturers and looked over many makes of cars. Finally, he decided on one make and effected arrangements for its production in this country. The car he chose was the Ford.

He then tried to induce some of his friends in Canada to invest in the project and encountered all the usual cold, disheartening difficulties attendant upon the organization of a new and untried proposition. If they could have but looked ten or eleven years ahead he would have had no worries over the organization of a company even double or quadruple the size.

No stock was offered for sale outside of the Dominion until all Canadians had been given an opportunity to subscribe.

Finally, in August, 1904, they organized the company with a capital of \$125,000.

Then came the difficulties of manufacture and for three years it was a constant struggle to win success.

But success came and a greater success than the founders ever dreamed of - a success abounding in truly marvelous facts and

And this is the story of Gordon McGregor of Ford, Ontario, and of the establishment of the Ford Motor Company of Canada, Limited.

To-day, half the population of four towns depend upon the Ford Company of Canada for their earnings. These are Ford City, Walker-Windsor and Sandwich.

The last census states that the average family consists of five persons. As there are over 3,000 employees in the towns mentioned above whose work is devoted to the manufacture of Ford cars, this official census figure shows that there are over 16,000 people that look to the Ford Company for their support. This does not include the nine cities in Canada in which Ford branches are established, which would add over 3,600 more.

And Ford employees are paid three times as well as the average as shown by government wage reports.

In April, 1915, a time when most Canadian manufacturars were fol-lowing a policy of retrenchment, the present Ford schedule of wages was adopted by which the company virtually handed to its employees, \$50,000 a month increased wages and reduced the working hours from nine to eight per day.

Surely, this is a great boon to Canadian workmen and their families It is a boon to Canadian merchants who benfiet by the increased puchasing power of all these families. It is a boon to the entire country in time of war when living expenses are higher than ever before.

And these employees have responded in like measure to the Empire's need for her people's support, Ford City alone having made what is probably a record contribution to the Patriotic Fund of \$34 per capita.

More than 300 Ford employees have enlisted for overseas service, and the Company is spending thousands of dollars in moving pictures which are offered free to assist in recruiting work all over the Dominion.

What an immense expression of confidence in the ultimate and un-questionable success of British arms and the allied cause was this great wage increase!

But it was not the only evidence of the Ford Company's faith in

Before the outbreak of hostilities the Company decided to reduce the price of the car by \$60. When the war came upon us the Company might well have been pardoned for withholding this reduction for a time. But they never even considered it. The reduction was made the same day war was declared.

and war was occurred.

And you can realize how real this confidence in the victorious properity of Canada was when you consider that the prices of Ford cars are set in accordance with the estimated production for the coming fiscal year and not by any means are they based on the profits of the preced-

\$652,000 has been spent on new buildings in Ford City since the war began

over \$1,000,000 has been spent on new buildings in four Canadian cities since war began, making a total expenditure for new buildings of approximately a million and three quarters.

\$1,000,000 has been spent in new equipment since war began. 900 men have been added to the pay roll since war began.

And if there is needed further proof of this Company's absolute conviction in the progress and prosperity of the Dominion, it may be found in the fact that another \$60 reduction in the price of the car was made last August—making a total reduction of \$190.00 since war began.

This new price requires an output of 40,000 cars this year. Then, too, the price of Ford parts has been reduced by \$147 per car-

a reduction that means a big increased economy to Ford owners. a reduction that means a big increased economy to Ford owners.

Such immense expenditures and price reductions as these are of the greatest benefit to the general welfare of the nation under existing conditions. They form one of the greatest possible influences towards boosting the prosperity of Canada.

Remember that all but \$16.88 worth of the material that goes into the construction of a Ford car is bought here in Canada—and it would all be bought here if it were possible to get it.

Truly the Ford is offer all a Canadian Care built by Canadians.

Truly, the Ford is, after all, a Canadian Car, built by Canadians. Very few Canadian manufacturers are able to show such a support to Canadian industry as this

The Canadian Ford Company is basing this year's factory production plans on just double the business done last year.
They stake everything on the conviction that Canada is bound to prosper. They place all on the belief that Britain'and her allies are

bound to win.

McGregor of Ford and his Canadian associates may be pardoned for feeling proud of this record

The Kassas.

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Ligh o th Squi price of

that und It is a months o pound live an additio every pour paid prev when the erably low I have feeding ca

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"We exp ounds a they are redo not make then there pecially is t Cattle gaini often failed August. A similar happened to hich board

for forty set 68 pounds.

cents a pour

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2½ cents a should be fiv A later re shows that gained 425 pe of something steers have 100 pounds i table ration straw as mine

Feed. It takes fro mal; hence flesh, etc., esp excess of the secret of suc to know how notch with overfeeding during their are the most dams, therefo of hogs and meals, fodder cattle are fini the age of 2 cost is 50 per of the same i

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**************** Light on Cattle Feeding

J. Eldridge, Bruce Co., Ont.

Light on Cattle Feeding

J. Eldridge, Bruce Co., Ont.

To throw some light on Mr. Squire's recent experience in feeding cattle for the agreed price of six cents for every pound gained in weight, it seems to me that under the circumstances this price was too low.

It is a common custom for farmers to take in feeders and feed five many control of more to get one cent a pound for the control of more to get one cent a pound for every pound gained in the state of the control of more to get one cent a pound for every pound gained in the state of the control of

statement is made.

"We expect steers to put on two
pounds a day from the start until
they are read from the block. If they
do not make about 700 pounds a year,
then there is something wrong; especially is this true for the first year.
Cattle gaining at this rate have very
often failed to gain in weight during the months of either July or
August.

August.
August.
August.
August.
Asimilar occurrence must have happened to the four head of cattle happened to the four head of cattle more record of the four head of cattle for the four head of cattle for the four head of the f

Feed. Above Maintenance

It takes from one half to two thirds of 'fillifeed' to maintain an anitime feed' to maintain an anitime feed' to maintain an anitime feed to the training and the control of the control Feed. Above Maintenance

I have raised baby beeves a couple of times and think that where there

Buy Your Binder RIGHT



The most important implement investment anyfarmer can make certainly is his Binder, and right there, because thousands of farmers realize that fact, you have the reason for the tremendous popularity of the

Frost and Wood Binder

THIS is the Binder noted for its light draft-its sure, speedy cutting-its great strength-its ease of handling. But the greatest of all its assets is Reliability. This comes from long Frost & Wood experience in the development of the Binder. It comes from many stringent tests we give every F. & W. Binder before it goes to the customer. The Frost & Wood Binder has a big power wheel of special design, special roller bearings, special cutter bar, special non-failing knotter, special non-clogging elevator and other exclusive features too numerous to list here. Frost & Wood make the Binder you can buy and KNOW it will give you the field service you want in any emergency.

Roller Bearings Swift Cutting Cuts any Crop

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Easy Levers No Threshing No Choking

Write nearest Branch or Office for Frost and Wood Binder Book and see what a splendid machine it is.

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is sufficient help it is the most profittable method to follow.

As I have endeavored to show the
most profitable way to raise cattle
I will now turn my attention to the
unprofitable way. According to Mr.
Squire's figures it cost him 56 cents
to put on a pound of gain. We all
know that straw is not a maintenance diet and as I understand it about
I7 per cent. of its nutritive value is
taken up in the energy required to
chew and digest it. This explains why
cattle fed on straw come out of the
staken up in the energy required to
chew and digest it. This explains why
cattle fed on straw come out of the
staken up in the energy required
to chew and digest it. This method
of caring for cattle and finishing at
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our year of its the right way to
lose money as it probably costs 56
cents to put on a pound of gain.

Oil Cake Meal

HAYE been making a study of feeding analysis and in comparing them I find that cottonseed is apparently somewhat the cotton to t

Ont.

In an average year, cottonseed meal is a somewhat cheaper food for dairy cows than is oil meal. The difference, however, unless it be in an exceptional year such as last year, is never very wide. The reason that oil cake maintains its prime position of popularity is due to properties that it has, altogether outside of its nuit has, altogether outside of its nuits.

tritive value. Cottonseed meal, un-less wisely fed, is apt to derange the digestive organs. Discontinuous feed of other hand, is a segulator. Heavy feeding with oil cake plants. Heavy feeding with oil cake system than strain on the animal's system than would correspondingly heavy feeding with cottonseed. Perhaps the wisest plan of all is to feed oil cake and tritive value. Cottonseed meal, un-

cottonseed together, thus combining cottonseed together, thus combining the cheapness of one with the regulating qualities of the other. For young animals, oil cake is an exceptionally good feed and cottonseed should be fed on no consideration whatsoever. In fact, some feeders have found it positively poisonous for calves.



FARM AND DAIRY

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Rogues shall not ply their trade at the expense of our subscribers, who are our friends, through the to the control of the control of the condition trilling disputes between subscribers and honorable business men who advertise, nos pay the debts of honest bankrupts.

The Rural Publishing Company, Limited PETERBORO, ONT. -

"Read not to contradict and to confute, nor to believe, and take for granted, but to weigh and consider."-Bacon.

Should Eggs be Inspected

I N the egg trade of Canada we have the nucleus of a tremendous business. Speaking at Petrolea recently, W. A. Brown of the Poultry Division, Ottawa, estimated that the egg production in Canada alone for 1915 would be worth \$30,000,000. This is two and one-half times the value of the whole fruit crop of Canada, six times the value of all the sheep, and half the value of all the cattle produced. The output, moreover, can be increased almost indefinitely. The only difficulty in the way of increased poultry production will be the marketing of the egg crop, and here we come upon our first stumbling-block.

For several years past all of the eggs produced in Canada have been consumed on the home market. Last year, however, the supply over-reached the home demand, and the egg market would have dropped to an unprofitable level, had not war closed off European supplies to the Old Land and we were able to develop an export trade of considerable proportions. The opening of the British market offers to our poultrymen a great opportunity for selling their surplus, but it is an opportunity that has already been seriously abused. Eggs of every description have been shipped and already Canadian eggs have a bad reputation on the British markets, and after the war they will come into competition with the cheap eggs from Russia and other European countries, instead of the quality eggs of Denmark and Ireland, which command a higher and a more profitable price.

This is a regrettable state of affairs, as the continued development of the poultry industry in Canada seems to depend upon our foreign markets. If the future of the industry lies in

the shipping of properly branded eggs, it is too big a problem to leave with the individual shipper. We believe the Government should act in the matter and provide legislation similar to the Fruit Marks Act, with proper provision for inspection of all eggs exported. The time to act is now, before the egg trade of the Old Land returns to its old channels and while we still have an opportunity of re-establishing ourselves in favor on the British market.

Patriotism and Production

T the recent annual convention of the Ontario Plowmen's Association, the following motion was submitted and carried unanimously:

Moved by H. L. Winslow, seconded by T. A. Paterson: "That the Executive of the Ontario Plowmen's Association wait on the Honorable Minister of Agriculture for Ontario, and request him to get in touch with recruiting officers in the rural districts in an endeavor to arrange, if possible, that at least one capable farm hand be left on each one hundred acre farm in the province so that the campaign for increased production may not fail in 1916."

There are many reasons why the Minister of Agriculture should heed the suggestion made in this resolution. We realize that in some quarters the adoption of such a suggestion may be regarded as class legislation, but there is no reason why it should be. Munition workers are not now accepted for overseas service, and thousands of mechanics have actually been taken out of the trenches to man the factories. Food is as much a part of munitions as clothing, shells, or armament. Numerous industries now employing many men could be allowed to lapse altogether without detriment to the military power of the Allies, but should Canada's crops fall off seriously it would not only mean financial difficulties at home, but actual want abroad. Two men is not too much for 100 acres. In fact, it is an absolute minimum if production is to be maintained. The resolution approved by the Plowmen's Association may be an important factor in bringing the Government to consider this aspect of the recruiting problem. The opinions of Our Folks in the same connection are invited.

Fruit Growing in British Columbia

DEPUTATION representing the Fruit A Growers' Association of British Columbia recently waited on the Economic and Development Commission at Ottawa to urge upon the Commission the desirability of having such measures adopted as would ensure to the apple growers of that province a fair profit for their labors. We do not know whether this deputation asked for a tariff increase, lower freight rates, direct government assistance, or a combination of all three, but we suspect that the tariff came in for most consideration. We feel justified in asking, are the British Columbia growers fair in their demand that, conditions considered, they should be assured a profit on their labors.

When the first orchard plantings made in British Columbia came into bearing, a profitable market was found in the prairie provinces for the small supplies of fruit then produced. So profitable were these first plantings that the fruit growing industry was boomed tremendously. Orchard planting was rushed ahead apparently without any consideration of where a market would be found for the immense crops of fruit that the future would bring forth. orchard boom was not confined to British Columbia. Plantings were made on an even greater scale in all of the Pacific Coast states. These orchards are now coming into bearing, and the supply is altogether in excess of the demand. In the meantime the growers who have high interest

rates to meet in addition to their other expenses. are finding it hard to make both ends meet.

Such is the situation. The growers believe that a tariff high enough to exclude United States fruit from the prairie markets would do much to solve their problem. We doubt, how ever, if even such a radical measure as this would assure a market for all the fruit grown in British Columbia in the next score of years as only a small proportion of the orchards planted are yet in bearing. Even if it did, would it be quite fair to ask the farmers and city consumers of the prairies to pay for the mistakes of the fruit growers themselves who are alone responsible for the rash over-planting and the excessive capitalization of their land? We do not believe the Government would be justified in granting such assistance. The subject, however, is open for discussion.

Tuberculin Tests

BRITISH Columbia reader has asked our opinion as to the merit of the tuberculin test, and requests a discussion of compulsory tuberculin testing as conducted in his province. We will discuss the points brought out in this letter more fully at a later date, but let us state here that the more we learn of the effects of tuberculosis, the more are we convinced that compensation or no compensation, no dairy farmer can afford to have the disease in his herd. This is as true of grade as of pure-bred herds. Aside from being a continual menace to the health of our own families, the tuberculous cow and herd cannot long be tolerated for economic reasons. The cities will see to that.

Milk for city consumption is the most rapidly increasing market for dairy products. quality of milk supplied to this trade, once left to the initiative of the individual dairymen, is now coming more and more under the supervision of health officials. No authority in the land can prevent a city or town council taking such measures as it deems essential for the protection of the health of its citizens, and some cities have already refused to allow milk from untested herds to be sold within their limits. More cities are falling in line, and the time is not far dstant when all milk for city and town consumption will come from herds that the tuberculin test has shown to be free from the

Then, again, dairy cattle buyers are more and more buying milch cows subject to the tuberculin test, and just in proportion as city health authorities demand the test, will city milk men, who are the largest buyers of milch cows, refuse to buy from untested herds. As a result, the district or province which applies the test universally as British Columbia is now attempting to do, will get the cream of the cattle buying trade. We would also call attention to the fact that swine fed on skim milk from an infected herd, very frequently contract the disease, and their carcases are rejected on that account.

It may be costly to exterminate the disease. We know that it is. But may it not be even more costly to let the disease take its course?

A flock of sheep, under average conditions, will make more money on the investment than any other class of live stock. Why, then, are they so scarce on Canadian farms?

"Dairy cows are valuable to convert unmarketable roughage into a saleable product," remarks a contemporary. Yes and good dairy cows will convert all of the staple crops of the farm into milk, and at something more than the market price. Well, perhaps we will except timothy from this ruling. Better sell it and buy clover.

Admiren

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2 and 3, in the Ca James, Co H. A. Cra berta: Dr. Commission as well as breeders, Referring that count their share war, Dr. past few Ontario ha \$3,000 to until the purposes. funds prov taxes hithe supply of valley in a populatio men to the men recent the farms county batt 20,000 farm ers would l months of t

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The history in Canada wa Alex. Hume, of Campbellfor fair, held 23 3 to the notice of work that Ca The t Ayrshire men were repeated Louis Exposit ed these as g progress of the ent. Public sa the advanceme Ogilvie sales i Te

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At the Ayrshire Breeders' Banquet

Admirers of the Scotch Dairy Cow Discuss Ayrshire and Other Matters Around the Festive Board.

Admirers of the Scotch Dairy Cow Around the F

The opening session of the Camadian Ayrshire Breeders' Association, held in Toronto on Feb. 2 and 3, took the form of a banquet in the state of the state

Ayrshires in the West

H. A. Craig told something of what was being done by the Ayrshire breed in the Sunny Province. The Department of Agriculture had estab-Department of Agriculture had estab-lished seven demonstration farms, on the control of the control of the control of one breed was good here for the control of one breed was proposed to the control of Ayrshires of high control of the control of Ayrshires of high control of the control of Ayrshires of high control of the control of the control of Ayrshires of high control of the control of th was at a disadvantage in that, when the demand for dairy cows, consequent upon the rapid growth of their critics during the boom, was keen, a lot of very inferior specimens of the breed had been sent from Ontario to that province. Mr. Craig strongly advised the Ayrshire men to send to Alberta nothing but their largest and typist animals of good producing capacity. There was a strong sentiment in favor of cattle of larger size and this would have to be taken note of if the breed was to hold its own in the future.

and this would have to be taken note of if the breed was to hold its own in the future.

Dr. Tolme.
Dr. Tolme and the B.C. foothills. An active cow of good grazing qualities was the one required in these districts, and the Ayrshire filled the bill better than any other. They had found difficulty to secure Ayrshires as needed in the work of distributing sires in British Columbia. The Past and Future of Ayrshires The history of the Ayrshire breed in Canada was briefly sketched by a Canada was briefly sketched by a Canada was briefly sketched by the control of the control

sales about the same time being the sales about the same time being the first of importance in Camada. At the latter bulls sold as high as \$700, cows \$800 and calves \$800 for 4 head. In the latter bulls sold as high as \$700 for 4 head. In the latter bulls sold as high as \$700 for 4 head. In the latter bulls are called the latter bulls are class of Ayrshires at the O.A.C. and the inauguration of advanced registry and R.O.P. work were the greatest stens in advance.

the inauguration of advanced registry and R. O.P. work were the greatest steps in advance.

Prof. H. Barton, in a clear cut speech on "The Improvement of Avrshires," outlined some nethods by which still greater progress could be made than in the past. He claimed that there was still urgent need for further and rapid improvement in the breed. Of the different facte's that would contribute to that is, approvement the show ring, extended service of bulls, and the careful and systematic elimination of inferior and the still report of Prof. Barton's address will appear in a subsequent issue of Farm. Because of the Charles of the Char

stein breeders, who were in session in an adjoining room, were to session in the Ayrshire men, these greetings be-ing heartily reciprocated.

The Value of Variety in Crop. Production

(Continued from page 4) past year are very interesting and important in showing the great varipast year are very interesting and important in showing the great variation in different varieties. One variation in different varieties. One variation in different variety, viz., The Snowball, gave a yield of only 13 bushels per acre, and another variety, viz., The Hustley, under similar conditions, gave left, under similar conditions, gave left, under similar conditions, gave left, and the left of lef ness. These three varieties are all of good table quality, the Empire State being particularly good in that

The State of Michigan has passed a law which prohibits the use of pictures of dair cattle, name of creamery or dairy a the manufacturand sale of oleo-margarine. Section the law reads as follows: "No person the law reads as follows: " the law reads as follows: "No person shall use in any way in connection with or associated with the sale or exposure for sale or advertisement of any substitute for butter, the word butter," 'creamery,' or 'dairy'; or the name or representation of any breed of dairy cattle, or any combination of any substitute, and substitute, or any combination of any such word exposure. breed or dairy cattle, or any combina-tion of any such word or words and representation, or any other words or symbols or combination thereof, com-monly used in the sale of butter."

In some sections of China manure is valued so highly that the manure heap is kept out in front of the house. The size of the pile is an index to the prosperity of the owner.

Alpha Gas Engines



The Men Who Use Them Save Money

You can save money by using an Alpha Gas Engine just as do many other men. An Alpha Gas Engine is a saving investment any way you look at it. It will have be money you now must pay out to get work done that requires now and operate the engine at less cost than that of hirm so one with an engine.

cost than that of hiring some one with an engine.

It will do quickly work that you are now doing by hand and wasting a lot of valuable time over. It will pump water and do other similar jobs without attention and leave you free to get other work done. Your wife or your boy can start and operate it a lot of the boy to which you now must give you time. Having an entine will relied by you of the odd jobs that are time-wasters and give you more time to attend to the important.

You need an engine and the sooner you buy one the quicker you will save the cost of the engine. Get an Alpha Gas Engine now, put it to work; and it will pay for itself in a few months. Ask for catalogue, prices and complete information,

Feed Silage

It is the best and cheapest feed for all kinds of live stock. Silage fed cows produce more milk at less cost than cows on any other feed. Stop the waste of your corn crop due to the fodder being dried and exposed to corn crop due to the fodder being dried and exposed to the weather and make the work of feeding easier by erecting an Ideal Green Feed Silo. It will pay for itself the first year and give you many years of service. Ask for catalogues that show why you get greater value for your money in this silo than in any other,



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10 man is happy who does not think himself so.

Victory on Windmill Row

By MABEL S. MERRILL (Farm and Fireside)

HE two sisters stood still to look across the three-acre field of river on one side to the woods on the other.

"It's the best piece in town," an-nounced Marion proudly. "And just think, Hugh has done all the work on it ever since it was put into the ground.""

"Here he comes now," said Estelle, "Here ne comes now, said Extene, the elder girl, gazing critically at a long-legged boy of seventeen who was hurrying toward them across the field. "He looks as worried as if he had taken a contract to sail the ship of state."

Estelle's tone was ironical,

Marion ran to meet her brother.
"I can't hire a man to pick corn for love nor money," explained Hugh in in answer to her question. "The corn shop starts in the morning, and all of the men that haven't got corn of for the packers. It's just possible I can get Captain Wheeler for a day,

but he wasn't sure he'd come."

The three acres of corn had been planted to sell to the canning factory—the "corn shop" as Hugh termed it —and the crop was now just right to be gathered and delivered. If allowed to stand even a few days longer it would be too hard and dry for can-

would be too hard and dry for canning.

"Then we must go right to work and polc what we can ourselves," declared Marion. "Every ear we pick is so much saved. We can load it into the carts as we work, and cover it up for the night with big pieces of canning the cart is a we work and cover it up for the night with big pieces of canning the cart is a we work and the pieces of canning the cart is a well with the pieces of canning the cart is a second to the cart is a well with the cart is a second to the cart is a well with the cart vas in case it should turn cold or wet.

I'll go this minute and get Clifford
to help harness the horses and bring up the baskets and everything

want.

Estelle opened her mouth to speak, but Marion was already running lightly down the long field toward the

The elder girl turned sharply upon her brother

"It can't be you expect Marion to help with it?"
"I did the best I could to find a man," Hugh returned shortly, "I never asked Marion to help, but you can't keep her out of the field, when she sees anything going to waste for want of a hand."

of a nand.
"Of course," snapped Estelle,
"with Father sick and nobody to
manage properly everything is in a

mess."
"The saving of the corn crop means the saving of two or three hundred dollars to Dad," Hugh explained savagely, "and Marion knows how much he needs it."

Estelle turned her back impatiently and looked with a frown at the prodard noted with a frown at the pro-cession coming up from the barn. Marion was driving the pair of big farm horses harnessed to the largest cart. Behind her came Clifford, their fourteen-year-old brother, standing

presence)
jauntily upright in a smaller cart and
urging old Maggie, the slow-stepping
mare, by flourishing his flapping
straw hat above her lean back. The
elder sister bit her lip as she looked
on, then she caught up an empty
basket and fell to work.

"I suppose I must make up my
"I suppose I must my
"I suppose I must my
"I suppose I my
"I suppose I

spared the money for my senior year

They worked steadily all day, the carts being filled, and then emptied at the mill again and again. The day's work was giving Estelle a new understanding of what the "home team" as Hugh called it, had had to face dur-

Hugh called it, had had to face during the three years she had been away at college. She felt increasing respect for the pluck and patience that had gone into the work of the farm. "It's Father's sixtich birthday," she thought once, stopping to straighten her tired back. "Poor Father, I never realized before what it meant—all this work that keeps coming and coming and piling itself up the year round. He's got food and colletes and comfort for us out of these old helds. He got my three years at college out. comfort for us out of these old fields. He got my three years at college out of them—by work like this. It begins to seem a miracle to me that he could, and yet here I am sulking all the time hecause I can't go back and finish. The last payment on the mortgage comes due this week, and I suppose he hasn't any money." Estelle was the first to finish her luncheon at noon, and then she sliphened the property of the ringling sheet of water that

of the rippling sheet of water that divided her from home. It was much deeper than in the morning, and the surface of it was red and yellow with surface of it was red and yellow with apples and pumpkins from low-lying harvest fields above. But the girl was so intent on her mission that the significance of these changes escaped

her. She fluttered her handkerchief till the white signal brought her mother

A Well Sheltered Homestead in Halton Co., Ont. Mr. George Colston will admit that there are disadvantages in having the greater part of the farm on higher ground than the buildings. But what a splendid shelter is the high wooded bank to the northwest of the home!

—Photo by an editor of Farm and Dairy.

when I've worked all summer at pri-

when I've worked all summer at private teaching to help out."

They worked until darkness crept upon them and rain began to fall. Heavily and steadily it fell all night, and when the corn pickers awoke in the morning they were not surprised to find that the river had overflowed

its banks.
"I don't see how you girls can go corn-picking any more," observed Mrs. Deland, the mother of the family. "Clifford says the water's rising every minute and the boat has gone off."

Hugh's face grew gloomy. The help of the girls would be badly needed to-day, though he hadn't counted much on Estelle after her grudging assistance of last night.

assistance of last night.

But Estelle had been in her Father's sick-room and something in the sight of the worn and aging face had changed the color of her thoughts.

"We can ride up to the corn piece in the carts," she said promptly. "The water isn't too deep yet. And we'll take a roll of bedding and the oil stove, and a great basket of things to eat. The carts are sure to be high and dry to sleep in if we have to camp in the field, and not a thing can happen to su prhere." happen to us up there."
"Captain Wheeler sent word early

this morning, that he would come and help all day." Hugh said as they hurried out and clambered into the wagons. "That will make three of you to pick. Cliff and I can had the loads by the pasture road as last as you can fill the carts."

from the house and then she put her hands to her mouth andr sent he strong young voice across the flood

"Mother, we all forgot it's Father's birthday. Won't you go up in my room and get a fat blue envelope out of my handkerchief box and give it to him with Estelle's love and many happy returns?"

Then she went back to her work.

The blue envelope contained the whole of her summer savings from

whole of her summer savings from her teaching.
At dusk Hugh and Clifford went off with the last two loads of corn for that day. Some time after the carts had started Marion discovered that they had no matches to light the little oil stove, and proposed to go across to Captain Wheeler's by the pasture road and borrow some. The water had invaded the pasture at last, and was running in a stream across the lowest

running in a stream across the lowest dip of the road, but she scrambled over safely by means of a fallen tree. "All right, Estelle," she called back. "It's deeper than I thought, though, and perhaps I'd better stop at the Captain's and ride back with the bowe."

Left alone the elder girl sat down Left alone the elder girl sat down and waited at the edge of the water across which her sister had disap-peared. She remembered with anxiety that Captain Wheeler had said in the morning that a piece of the old toll bridge had lodged between the islands down river, and that if a mass of debris should get jammed against it the barrier might become a dam which would send the water flooding sud-

denly back upon them. She rose to her feet and peered anxiously down into the field where the black waves were catching the fire of the stars.

"Oh, here they come; I'm so glad!" she cried at last as the heads of Hugh's horses came out of the dark-ness at the other side of the stream. Clifford and Marion were in the small-er cart which drove close behind into the water

Suddenly Estelle sprang to her feet. Suddenly Estelle sprang to her feet.
"Hurry, hurry!" she called in sharp
tones of alarm. "Something's happened down below. The water's just
rushing back from the field."

rushing back from the field."

The thing the Captain had predicted had come to pass. The flood, pent up below, was backin" up the course of the small stream across the pasture road. The water was up to the bodies of the carts before dry ground could be reached. Hugh's horses struggled safely to the ridge where Estelle was, but old Maggie, floundering after them, was off her feet. Hugh after them, was off her feet. Hugh left his own team and, dashing into the water, got her by the head and helped her out before he saw that the cart body with Clifford and Mar-ion clinging to it was swirling away on the flood that seemed to be run-

on the flood that seemed to be run-ning in all directions at once.
"They'll be drowned or smashed if they get out into the field," he mut-tered, staring into the dark.
"Come quick! I saw an old boat

Over in the choke cherry bushes. Wake up, Hugh, and do something, cried Estelle sharply, for the suddenness of the emergency seemed to have

left the boy dazed.

It was Estelle who made sure that the old boat—a bit of the flood's debris—would hold them, who found the oars and got Hugh into his seat, and it was at her word that they pushed across what had been the brook, and slid out upon the black wreck-strewn water beside the river whose bank was blotted out.

A small building of some kind was

careening along in midstream; boxes, barrels, heavy logs, and sticks of hewn timber made the flooded field perilous place for the old boat. But Hugh had recovered himself now rowed steadily, while Estelle, a stout pole she had found, with pushed away threatening obstacles. They soon found the castaways clinging to the cart body which had jaming to the cart body which had jammed itself against a tree. They were unhurt, and presently all four were in the boat fighting their way toward the nearest land, which happened to be the foot of the confield. A little later they were laughing at their mishap as they sat drinking hot coffee around a comfortable bonfire when the sign of the woods. Only Hugh the state of the woods. Only Hugh the state of the woods. The makeshift dam between the interpretation of the state of the woods.

The makeshift dam between the islands broke that night, the water fell rapidly, and by noon of the next day they were able to walk home to dinthey were able to walk nome to din-ner and recount their adventure to the anxious mother and father. They walked back again in the afternoon, however, for the corn job must be

Estelle was very tired and depressed, and the feeling kept growing up-on her that it was her duty to stay here and share the drudgery of the old farm.

old farm. "Estelle." Marion, basket in hand, broke in upon her solitary musing, "mark your row with something pink and fluttery, so you'll know where you stopped, and then let's go up and find Mother. She's at the top of the windmill row, picking corn, and it's too hard work after all she's done at home." done at home.

They went crosswise through the rustling corn forest to investigate the doings at the top of the windmill row. Evidently the picker had gone out to empty her basket, for no one was visible. As Estelle caught sight of a (Concluded on page 15.)

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The Upward Look and the face to face with her room mate at college, Virginia Raynor. Here she is now!" shouted Virginia to the dean, who was emptying simia to the dean, who was emptying Lessessessessessesses

Travel Stories No. 20 The Heavenly Vision.

TRENGTHENED with all might, according to his glorious power, unto all patience and long-suffering with joyfulness."

tous power, unto an patence and long-suffering with joyfulness."
Col. 111.

The main architectural feature, at the San Francisco Exposition, was the majestic Tower of Jewels. It was admired and enjoyed by the throngs of was a superson of the suffering th

The jewels shone and sparkled so adding to the effect that the whole seemed almost too much for the physical eye to endure. Why do I call it my Heavenly Vision? It is on account of the spiritual uplif, that came with the first sight of it and comes every time I sight of it, that came with the first sight of it and comes every time I strength, when majesty suggested strength, when the surrounded, rising heavenward in the surrounded me ingit black sky, it reminded me of God's Might, that must be behind all strength-ming forces.

God's Might, that must be behind all strengthening forces. Its whiteness in the blackness, sug-gested the purity of thought, life of actions of life; the ideal so longed for in spite of repeated failures. The sparkling, gleaming jewels seemed symbolical of the joy of self-sacrifice, of loyal endeavor, of Christ-like striv-ing.—I. H. N.

. . . Victory on Windmill Row (Continued from page 14)

crimson scarf, spangled with silver, which was knotted about the pole of the windmill, she fell back against

the windmill, she fell back against her sister.

"Plinch me, Marion! I know I'm dreaming a fairy tale. That's the dean's scarf. I'd recognize it in China. It's the only thing we girls have ever laughed at her for—it's so girldy compared with the rest of her belonging."

Marion looked in the rest of her belonging."

belongings.

But Marion looked incredulous. But Marion looked incredulous. If you then she heard her mother's you can be seen as without stopping to speculate about the scarf she ran swiftly down the row, leaving her saler to follow or not, as she pleas see to follow or not, as she pleas she to be she was the saler to follow or not, as he pleas the was tall enough to hide corn, which was tall enough to hide corn, which was tall enough to hide corn, which was tall enough to the plees she found herself in the great of two hands that briskly turn-

her basket.

earth did you drop from?" cried Estella.

from?" cried Estella.
"You needn't be so amazed at my looking you up," laughed the dean, straightening herself and smoothing her hair. "Did you think you were going to slip through my fingers? I gold to the sicken with the straight of the sicken sees and the other sicken sees and the other sicken sees and the other sees and the other with your mother over the corn-picking. I came

over from home to talk to her and I found her here, and we've settled a set of things. The set of things will be set of things will be set of things her basket excitedly. "It will be saket excitedly. "It had you and I are going to set up a Saturday mending shop in our room and earn our board and keep." "Haven't we done well with the corn, too?" demanded the dean, pointing to the overflow from the carts. "You are lucky girls to have grown up in a place like this." Estelle could not control her emo-

tions. She turned away to hide her face, but the sound of her sobs made everyone else feel happily tearful. Flush reappeared just hen, and after lugh reappeared just hen, and after had explained the situation to him, had explained to had been a college education is all right for a girl after all," he said. "Maybe it's that kept you cool when I didn't know enough to get a boat. I'm mighty glad you can go back," "Windmill Row seems to have taught us all a good many things," said the dean quietly, as they picked up their baskets and started home.

(15)



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E. A. Peck F. D. Kerr V. J. McElderry It Isn't the Place-It's You

AVE you ever stood by the side of the road and watched of the road and watched your-self go by? Have you ever taken aself go by? Have you ever taken an inventory of your real self, arranged a debit and credit column—and cast the totals? You have had trouble with that neighbor of yours; he is everlasting wrong and you are everlasting right. You are a good-natured, broad-minded, liberal man—all you ask is to be treated square; you believe absolutely in the application of the Golden Rule in all business How much would you give to know just how that neighbor of yours would check up? You are an ideal husband; give your wife all she ought to have; treat the children well; al-ways good natured about the home; optimistic — happiest when you are able to make your own family happy.

able to make your own family happy. Suppose we get the confidential opinions of the members of your family—they all like you, but must confess that you: "Use your home as a kicking nost:" "soold about the weather;" "fret about the crops:" "kick-the dog and make yourself and every one about you must have your one about your must be company enter the home and you imcompany enter the home and you imcompany enter the home and you mediately put on company manners; everything is lovely. A sort of Dr. Jekyl and Mr. Hyde, are you? When the company leave you grunt and growl, snarl and find fault until every one within the sound of your voice is nervous and irritable.

nervous and irritable.

The winter season is on; the ingathering time is with us now. We have more time with the family. Every member of the family circle should take an inventory of himself or should take an inventory of nimsen of herself, and firmly make this resolu-tion: "Life is short at the longest; complete family circles exist but a very short time. Some day brother and sister will be far away in homes and sister will be far away in homes of their own; father and mother are already journeving down life's highway which leads to the sunset lands; therefore I am determined to give my helpfulness, my smiles, my very best to my family, while yet I may, trusting that in the abundance of God's gracious goodness to me. I shall find time to help even those outside my family circle." Remember:

If you want to live in a happy home, Like the kind of a home you like, You needn't slip your clothes in a

grip
And start on a long, long hike.
You'll only find what you left behind,
For there's nothing that's really

new.

It's a knock at yourself when you knock your home,

It isn't the place—it's YOU.

—The Gleaner.

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Good Taste in Dress a Satisfaction

Farm and Duiry bytterns shown in these columns are especially of ore Farm and Duiry's Women-Fells. They can be writed upon to the latest Duil Duiry was recommended to the statest with the state of the Duiry was refer plates be careful to state but or waits measure for adults children and the number of pattern desired. Price of all patterns to Our Folks, Address all orders to Pattern Delty, Form and Dairy Peterbor, Ont.



Tills question of dress may easily between the process of the along the process of the along the process of the

dress of last year's designs might be redress of last year's designs might be redress of last year's designs might be redress of the rest of the rest of the redress of the rest of the redress of the re
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and the skirt from measure.

1592—Girl's Dross.—The illustration here shown may be used as either an apron or skirt. Bloomers also are a part of the costume if desired. Five sizes: 2, 4, 6, 8 and 10 years.



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have got stage into dignified outward a there is type of climbing around the the lines on itself houses w grown up than as i

Plantin It is to builder of it set up bare, but to plant creepers honeysuck maple, oal In plantin won't arra ing row a

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A House That Will Grow in Charm

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There is something yet yoolid and dignified and comfortable about the outward appearance of this house, which there is one thing it lacks. It is the type of house which needs vines climbing up over the porerl and shrubbery here and there to soften the lines. Given these it will take upon itself something of the charm of house which look as if they had grown up out of the ground rather than as if they had been made with hands.

DED ROOM PLAN-Planting Should be Begun Early

Planting Should be Begun Early
It is to be hoped, then, that the
builder of this house will not leave
it set up in an open field, stark and
bare, but will proceed with all haste
to plant out cuttings of the Virginia
creepers and clumps of lilac and
honeysuckle and a little farther away
maple, oak, sh, elm or poplar trees.
In planting the trees we trust that he
won't arrange them in a stiff forbidding row about the lawn, but scatter
them as nature does, two here, one
Having seen how it can
them as nature does, two here, one
with much interior charm and serviceability.

One of the most unusual features is
a large screened-in back porch, which
does not have been done
to be does the lower portion of the house is
making on a concrete or stone
basement (use which is easiest to obwather to specify the shingle on the wall
the lower portion of the house is
shingle. The shingle on the
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GROUND FLOOR PLAN-

Architect's Description

A Great Canadian Institution

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Tonight Plan whom you will see about taking

British Columbia Dairymen in Convention' High-gradeFertilizers

Both Clover and Corn Silage Receive Hearty Endorsation

WEATHER conditions were not favorable to a large attendance at the annual convention of the British Columbia Dai; men's Association, held at New Westminster recently. The pr-a; am, however, was a good one and in every thing but attendance, the convention was a standard to the convention was a provisited feature was an exhibition of dairy norducts held in connection of dairy norducts held in connection of dairy products held in connection with the convention.

with the convention.

In his presidential address, Mr. William Duncan, stated that the dairy industry for the year 1915 had not been a particularly profitable one. High prices were paid for concentrates in the early part of the year and rates in the early part of the year and dry weather throughout the season had made the cost of production higher. The failure of the root crop was particularly felt. The danymen who had reached the corn growing who had reached the corn growing stage are the men who can dely weather conditions and president Duncan advised that where corn can be grown profitably, dairymen should grow all of it they can. Having made reference to the success of co-opera-tive endeavor in European countries, Mr. Duncan said:

It is true that in some parts of It is true that in some parts of the province unsuccessful attempts to cooperate have almost had the effect of making farmers believe that the principle is at fault, but surely what has been done so successfully in other countries along the

cessfully in other countries along the lines of agricultural cooperation can be done here, and no one will say that the need does not exist. "I believe that where cooperation has failed, failure can be traced to one or more of three causes; first, carelessness on the part of the di-rectors and carelessness and lack of effort on the part of the inment; second, carelessness and lack of effort on the part of the in-dividual, and third, lack of cohesion among the members. Given direc-tors, management and members doing faithfully their various parts, cooper-ation cannot fail.

In closing the president paid a trib-ute to the good work of the popular and efficient secretary of the associa-man defficient secretary of the associa-

and efficient secretary of the association, Mr. Henry Rive.

Dairy Progress Given Stabilically
W. E. Scott, Deputy Minister of
Agriculture, told the dairymen assembled that increased production is
the peramount duty of the dairy farmer and that he can serve his country as well on the farm as in the
trenches. To indicate the progress
of the dairy industry, Mr. Scott noted that in 1913 the lome production of butter and milk was \$2,993,000,
and imports \$5,068,000; in 1914, production was \$8,000,012, and imports
\$4,489,000; in 1915, production was \$4,489,000; in 1915, production was \$3,432,000 or nearly a million increase over 1913, while imports declined to

\$3,495,000.
So far the province is not mak-ing much butter, but the time is coming when a greater proportion of the milk production must be used in that way

\$3 495 000

The relative merits of corn, silage, The relative ments of corn, silage, and clover silage were discussed by P. H. Moore of the Dominion Experimental Farm at Agassiz. The cost of clover silage Mr. Moore estimated at \$8.50 per acre, an acre yielding eight tons. The cost to place the clover silage in the 3ilo is \$1.50.

The chemical composition of corn The chemical composition of corn silage as compared with clover silage, is as follows: Dry matter, corn, 26 per cent, clover, 28 per cent, pro-tein, corn, 1.8 per cent, clover, 2 per cent; carbo-hydrates, corn, 14 per cent; clover, 13 per cent; fat, corn, 7 per cent; and clover, 1 per

In the tests when both corn and *For the major portion of this report we are indebted to "The British Columbia." published at New Westminster, B. C.

EATHER conditions were not clover silage were fed to cows the favorable to a large attendance cost to produce 100 pounds of milk at the annual convention of the from corn silage was 88.59 cents, British Columbia Dai'ymen's Asso-while when clover was fed the cost

while when clover was fed the cost was 87.72 cents, leaving a difference in favor of clover of .87 cents. To produce one pound of fat the cost where corn silage was fed was 29.6 cents, and for clover silage 30.1 cents, making a differ-ence in favor of the corn silage of 8 cents. .5 cents.

.8 cents. The speaker advised that clover for silage be cut very short and every particle wetted before it is placed in the silo, where it must be tramp-ed well. Neither should clover be used pure, a mixture of red clover and alsike along with smaller pro-portions of white clover and dried portions of white clover and dried greas being preferable. Although clover is one of the easiest crops to grow in British Columbia, Mr. Moore did not recommend doing away with corn silage, but the following of a crop of corn with a crop of clover. Farmers Discuss Feeding Matters. One of the most instructive afternoons of the convention was given

noons of the convention was given over to a discussion of feeding mat-ters. Mr. E. A. Wells of Sardis strongly endorsed kale as one of the best feeds for the winter months, providing the weather is not too cold. providing the weather is not too cold. In summer when the pastures dry up, other green feeds should be given, such as peas, oats and barley, while in winter cotton seed, oil cake, bran and shorts are all desirable for grain feeds. Mr. W. N. Townsend of Armstrong, was not so enthusiastic over kale as Mr. Wells as he had had to abandon the sum to gave the milk. He said he had tried every method of feeding it without success. Mr. Wells, in reply, stated that there should be no difficulty where the kale was fed in reply, stated that there should be no difficulty where the kale was fed out-doors. It should not be fed when the cows were miking, nor should the milk be the well-king, nor should the should be the should be should be seen to stone the should be seen to stone the should be should be

cluded by asking whether it was pro-fitable to feed cows grain in summer when the pasture was fairly good and the production 30 pounds of five per cent. milk a day. Mr. A. H. Menzie, of Pender Isiand, replied with an em-phatic affirmative.

phatic affirmative.
The latter stages of the discussion dealt largely with the use of silos and silage. Mr. Tom Shannon of Cloverdale endorsed the silo, giving as his ration 30 to 45 pounds of silage a day, 10 pounds of hay in the evening and a mixture of bran, oats three and one-half or four pounds of milk. In summer he deemeds were three and one-half or four pounds of milk. In summer he depends very of milk. In summer he depends very little on pasture using cut clover, peas and oats and in the fall lots of keale, which is available from Oct. Is to Sept. 18. Next spring he intends using clover salage instead of green feed, believing it gives a more even yield of milk.

The silo found an enthusiastic advocate in Mr. John W. Berry of Langley, who last year had 15 acres in corn. When it was touched by an in corn. When it was touched by an early frost he cut and put it into the silo, but as a result of his experience he would not cut so soon again. He also advised leaving the corn in the field a day or two after cutting in order that it might wilt. His second silo he will fill with clover.

Are Best Values

The average cost of Nitrogen in 500 samples of "complete" fertilizers was 66% higher than the cost of Nitrogen in

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Champion Evaporator

means.

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WHITE AND COLUMBIA WYANDOTTES, LIGHT BRAHMAS, S.C. WHITE LEGHORNS Over 50 years a breeder, Stock and Eggs for Sale.

Michael K. Boyer, Box 23, Hammonton, N.J.



Fe It is h clover of clov ensilage Langley and wil er. His to come wilt slig with a adds no Mr. J

Jewel, v cow of a in the v The rece duction with 938 butter, i cow was been dry was mil fed most but no freshenin was fed oats, one ley. Af grain and here w hay. As feed was ounds o Later on she was mangels. that any

In ans number said this'

turned in the ba night. Sh before fr

pounds of on pastur account o milked at summer g hay, no br In-the ti contest, pr classes: A and marke only. The only. The ary 20th an teria, flavo solids not highest co and in the The avera 17 in numb samples re samples reper c.c. an entry of JB. C., score in the app Steves of Bros., of place with cream, Wmmond was

The butt

n a score or flavor, 5 points. A ger of the petition sta eceived we number of ood beginn enced.

The result First, A. s; second, ciation, I ourtenay, touver Crea rints the r ers

ector

City

our

r

It is his intention next year to cut clover early in June and get a crop of clover hay off the land as well as ensilage. Mr. Hugh Davidson of Langley Fort, said he had two silos and will build a fourth, all for clover. His system is to allow the clover to come to its full growth and then cut it before it ripens. Allow it to with all the silong the si

adds no water except right at the top, after a six inch dressing of wild hay. Feeding a Record Breaker Mr. J. M. Steves, of Steveston, described the system of feeding used with his cow Lady Pietje Canary's Jewel, which holds the Dominion record for butter production for any cow of any age, and has but one peer in the world for a cow of her age. The record in question was the production of 24,146.8 pounds of milk, with 988,89 pounds of butter fat, equivalent to 1,173.65 pounds of butter, in 368 consecutive days. The cow was three years old, and had been dry about seven weeks. She was milked four times daily, being was milked four times daily, being the control of the contro freshening. When turned out she was fed a mixture of three parts of oats, one of oil cake and one of baroats, one of oil cake and one of par-ley. After two or three weeks she was given about four pounds of grain and some hay four times daily. There was very liftle clover in the hay. As winter came on the grain feed was increased to about five ed was increased to about five pounds of mangels at each feeding. Later on, when there was no grass, she was given six pound of grain and the same quantity stay, and mangels. It is Mr. Steves, opinion that any cow will do better that any cow will do better on the same to the s

in the summer and in the winter was the doubt every fine day, but kept the doubt every fine doubt every fine the d

contest, prizes were offered in three classes: Approved milk, market milk, and market cream open to producers only. The milk was drawn on January 20th and scored Jan. 24th on bacteristics. ary 20th and scored Jan. 24th on bacteria, flavor, sediment, acidity, fats, solids not fat and package. The highest count in either of the milk classes for bacteria was 3,000 per c.c. and in the cream classes 6,000 per c.c. and in the cream classes 6,000 per c.c. The average count of all exhibits Ir in number being 800 per c.c. Eleven samples resulted in a count of 500 per c.c. and under. The market milk entry of Joseph Thompson, Sardia, E. C., scored highest with 99.08 points. In the approved milk class. J. M. in the approved milk class. J. M. B. C., scored highest with 99.08 points, in the approved milk class. J. M. Steves of Steveston and Shannon Bros., of Cloverdale, tied for first place with a score of 98.1 m market cream, Wm. Hampton of Port Hammond was first with a score of 97.8. The butter exhibits were judged.

The butter exhibits were judged on a score card allowing 60 points for flavor, instead of the previous for flavor, instead of the previous points. Mr. W. K. McLeod, manger of the Chilliwack creamery and petition stated that all the samples received were very good, while the aumber of entries showed that a good beginning in the work has commenced.

The results of the competition were

The results of the competition were s follows:
First, A. P. Slade & Co., Clayburn, 6; second, Nanaimo Creamery Asociation, Ltd., Nanaimo, 99; third, comox Creamery Association, Ltd., ourtenay, 94.5, and fourth the Vanouver Creamery Co., Ltd., 98.5. For rints the results were: First, A. P.

Slade & Co., 96; second Nanaumo Creamery Association, Ltd., 98.8; third, the Comox Creamery Associa-tion, Ltd., 95; while the New West-minster Creamery Society, Ltd., tied with P. Burns & Co. for fourth place, with 94.5. Officers Elected

with 94.5 Officers Elected
with 94.5 Officers Elected
William Duncan, of Sandwick, B.
C., was re-elected as president. The
other officers for this year are: Hon.
President, Mr. A. C. Wells, Sardis;
vice-president E. A. Wells, Sardis;
vice-president E. A. Wells, Sa

Dairy School Creamery Meeting Dairy School Creamery Meeting
HE patron's of the Eastern Dairy
School Creamery, Kingston,
Ont., held their annual meeting
at the School on Thursday the Srd
inst. The auditors, Messrs. Henderson and Stewart, submitted a very
favorable report on the year's business, the following being a short
summary: summary:

Total pounds of butter 32.3c Average price paid per lb. of fat to patrons for the

8.6 and for the seven months corresso and for the seven months corresponding to the cheese season to be 3.4 the above prices would be equivalent to \$1.38 and \$1.22½, per cwt. of milk respectively Cream Will Be Graded

Cream Will Be Graded
A resolution was proposed and unanimously adopted that beginning
April 1st next, all cream be graded
and paid for in accordance with its
quality. For this purpose it was decided to make two grades, No. 1 and
No. 2; No. 1 to be paid a premium of
the power of the propose of the period of the control
of the proposed of the premium of
Cream, in order to grade, No.

lowed for No. 2.

Cream, in order to grade No. 1
must be perfectly sweet and clean in
flavor, No. 2 being sour or slightly
sour. Any cream offered which cannot
be classified as either No. 1 or No. 2
to be either rejected or accepted at
a price in accordance with its condition, at the discretion of the but termaker.

termaker.

The management of the Eastern
Dairy School are desirous of setting
the advantage of all creamery patrons to have provided, means whereby
such individual will be able to receive
a direct reward for their individual
efforts toward the production of a
higher quality of raw material.

Girl Champion Hog Grower

NNA Barrett is a high school girl of Larimore, North Dakota, and last year was a member of the National Pig Club. She was the champion pig Club member of the United States last year. She raised a litter of 14 pure-bred Duroc-Jersey loss which weighed 5 811 younds which weighed 3,811 pounds when they were 209 days old.

when they were 209 days old.

The pigs were fed 21 bushels of
corn at 50c per bushel, 14 bushels of
barley at 46c, 20 bushels of oats at
30c, 4,765 pounds of screenings at \$10
per ton, 89 pounds of shorts and 28
pounds of bran at \$19 per ton, 1,400
pounds of milk at 25c per 100 pounds
and were pastured 135 days.
The
tags of feed and pasture was
104. 20th of feed and pasture was
105. 20th of feed and 536 feel.

The pics were sold at 6%c
per pound, amounting to 3267.71.



"Velvet" For Dairymen

West Chester, Pa.

Mr. Dairyman:

February 3rd, 1916.

We have a wonderful new invention and I want to tell you about it myself. It is a source of new profit for dairy-men without added expense which I call "velvet," for it is all profit.

Thirty-five years, longest in America, the Sharples plant has been devoted exclusively to the Cream Separator,

Its inventors produced the first cream over-flow bowl with its superior quality of smooth even cream, the first directly driven steam Separator, saving power, fuel and wear, the first and only tubular bowl with its doubled skimming the has and only tubular bowl with its doubled semining force and efficiency and extreme simplicity, the bottom feed, the hanging tubular bowl, all making for convenience, durability, economy of maintenance and operation.

Now we have made another great invention, greatest of all as a profit producer, though so simple that it seems we should have had it long ago.

Thousands of carefully made observations by competent investigators, government officials and scientific men have proven beyond question that 95% of all the hand driven cream separators in America are turned below regulation speed, below the speed marked on the handle, a great part of the time and every hand separator is under-speeded some of the time.

No matter which separator, whose make, or what it is capable of doing when turned at full speed, it will lose cream and a lot of it, when the speed is allowed to drop even for a moment, and with the cream goes the profit.

THE NEW HARPI SUCTION FEED

Separator will stop this loss, aggregating millions of dollars annually to America's dairymen—stop it at once and forever.

American darymen—stop it at once and lorever.

No matter if you turn this Separator at widely varying speeds, fast or slow, it skims equally clean—no cream will be lost. The bowl drinks its milk supply as it needs it, always in exact proportion to the separating force within the bowl. At slower speeds it drinks less, at faster speeds more, but always just the right amount for clean skimming.

A thousand of these machines are in regular daily use; we demonstrated them to a finish before nnouncing them; it is the Sharples way absolute perfection before sale.

absolute perfection before sale.

The Sharples Suction Feed Separator has several very important advantages in addition to its certainty of clean admining at any speed. The vanings of several first turning increases the capacity much above normal, just as you whit up a horse, when in a burry. The supply can its but fines high and the machine throughout is simpler and better than ever.

throughout a simpler and better than ever.

We sell our Separators now, as always, subject to free trial by the buyer; but a stronger guarantee than any trial is the unbroken record of the growth of this business from the small beginning of 35 years ago to its immense proportions of to-day. It could not grow so except by the unbroken rule of complete satisfaction to customers.

Lack of space prevents explaining more fully; but send today for new book, "Velvet for Dairymen," that tells all about this money-saving invention. Sincerely yours,

P.M. Sharples Provident.

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Also Mechanical Milkers and Gasoline Engines Toronto

Heaves



-by removing the cause-and cured to stay cured-if 3 boxes of Fleming's Tonic Heave Remedy fall to effect a cure of any case, old or new, we will refund the full amount paid.

Per Bex, \$1.00; \$ for \$2.50.
Mailed on receipt of Price.

Scratches Disappeared Scratches Disappeared
Gentlemen:— gave a course
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has put a horse and his mate
in fine shape, and a touch of
scratches has quite disappeared
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Veterinary Advisor
Write as for a Free Conv

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Government Standar	d
No. 1 Red Clover 8	r Bus. 17.00 16.00
" 1 Alsike	13.00
" 1 Alfalfa (Northern	12.00
" 2 Timothy (This seed grades No. 1 for Pur	5.50 ity)
" 3 Timothy	5.00
White Blossom Sweet Clover	12.50

Terms-Cash with order

Bags extra at 25c. each. On all orders East of Manitoba of \$25.00 or over we pay the freight.

We Guarantee Seeds to Satisfy or ship back at our expense. Ask for Samples if necessary.

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FOR SALE -Second-hand boiler and engine. Used in creamery. Boiler 18 H.P. The engine is 8 H.P. horisontal; made by the Waterous Co. Both have been little used and are in excellent condition. Write quick for a bargain.

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BUTTER MAKER WANTED—With two to three years' practical experience and ef-ficient to operate the Baboock test. One who has taken a Dairy School course preferred. Address Box 480, Farm and preferred. Addre. Dairy, Peterboro.

WE WILL PAY YOU \$120 for sixty days work to distribute war literature. Ma or woman. Spare time may be used. Winston Co., Limited Toronto.

WANTED-Cheesemaker for Elmbank fac-tory for season 1916. Make for 1915, over 65 tons. Apply for particulars to James Olelland, Proprietor, Listowel, Ont.

Construct a house of the common and poultry-men, our 80-page illustrated construct a house white on feeding, her for the common and the common and the common dispuse of atook and poultry, and the common dispuse of atook and poultry foods and remedies.

Thus W. A. Janstens Mrs. Co. LORDON, "CAIL.

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the leading exponent of dairying in Canada. The great majority of the members of the Canadian Holaten. Friesian Association are readers of the paper. Members of the Association are invited to send tens of interest to Holaten breeders for publication in this column.

OXFORD BREEDERS MEET.

OXFORD RREEDERS MEET.

The Carlon District Holstein Reeders'
The carlon District Holstein Reeders'
the city hall. Woodstock, flaturday,
Jan. 29. There were present prominent
breeders of Holsteins from throughout the
datrict, and man and the carlon throughout the
district, and man and the carlon throughout the
president of the cith, occupied the elast;
The financial statement showed a balance
on hand of 867.8. After early this
nex, the following officers were duly appointed:

nos. Ide Tollowing outcome was considered by President, T. J. Lamminan, Ourrie's, Onf.: Vice-President, J. Leussler, Tavistock; Directors — Means, George Prouse, Colorio, Directors — Means, George Prouse, Outrie, Directors, Directors, Lambert, M. McDowell, Ordroft Centre, Mr. McDowell, Charles and Mr. McDowell, Control of Centre and Ce

SEMI-OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM DEC. I TO DEC. 31, 1915.

Mature Class.

1. Princess Wayne Concordia, 11634, 67, 1256 lbs. milk, 655 lbs. fat, 682.76 lbs. butter.—G. W. Louca. Odessa.

2. May Korndyke, 12786, 57, 15164 lbs. milk, 651 lbs. fat, 682.76 lbs. butter.—Geo. A. Foster. Pirrer-Year-Class.

1. Annelida Teake, 15941, 37, 1404.; 13968 lbs. milk, 433 lbs. fat, 655 lbs. butter.—T. Best, Wood-Face-Class.

1. Adelaida De Kol. Springbank 2nd, 23, 58, 57, 444, 6961 lbs. milk, 331 lbs. fat, 493.76 lbs. butter.—T. H. Desti, Wood-Face-Class. Mature Class.

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM DEC. 16 TO 31, 1915. Mature Class.

1 Miss La Honda, 966, 7y, tim. 6d.; 763.1 lbs. milk, 240.9 lbs. fat, 251.2 lbs. butter—Sameel Dickie. Central Ondow, 78.5. 2 Maude Snowball, 16643, 6y, 7m. 34d.; 63.7 lbs. milk, 253.9 lbs. fat, 93.2 lbs. butter—virilla Sărcastic Rue, 7211, 9y, 9m. 34d.; 652.7 lbs. milk, 25.2 lbs. butter—J. W. Eichardson, Caledonia, 4.4 Wooderest Colsatha First, 268.0 lbs. butter—J. W. Eichardson, Caledonia, 7m. 264.; 693.1 lbs. milk, 25.2 lbs. 265.7 m. 261. 683.1 lbs. milk, 27.2 lbs. 265.0 lbs. butter—Jr. L. db l. Harwood, Vaudenberger, 25.2 lbs. 265.0 lbs. butter—Jr. L. db l. Harwood, Vaudenberger, 25.2 lbs. 265.0 lbs. butter—Jr. L. db l. Harwood, Vaudenberger, 25.2 lbs. 265.0 l

reuil, Que.

5 Ladorge Idaline Veeman, 11220, 7y. 8m.
2d.; 472.7 lbs. milk; 93.8 lbs. fat, 24.33 lbs.
butter.—A. E. Hulet, Norwich.
6 Gretohen St. Lawrence.
16m. 18d.; 5d.3 lbs. milk; 18m.
10m. 18d.; 5d.3 lbs. milk; 18d. ave.
1bs. butter.—Dr. L. de L. Harwood.
15m. 75m. 75m. 75m. 75m.
15m. 75m. 75m. 75m. 75m.
15m. 75m. 75m. 75m. 75m.
15m. 75m. 75m.
15m. 75m. 75m.
15m. 75m.

1 Mercenia Sir Poech 2nd's Emma. 19130, 4y. 7m. 25d.; 468.1 lbs. mllk, 18.46 lbs. fat. 23/7 lbs. burg. 7.75 lbs. mllk, 18.46 lbs. fat. 23/7 lbs. burg. 7.75 lbs. mllk, 18.49 lbs. fat. 23/7 lbs. burg. 1.50 lbs. fat. 20.66 lbs. butter.—H. W. Best, West Morrhand, P.E.I. Syr. Three-Year-Class.

Faforit Beauty Posch, 20335, 3y. 11m.; 491.1 lbs. milk, 20.82 lbs. fat, 26.02 lbs.

1d. 2012 lbs. mili. 2022 lbs. fat, first mile. 11ster y record: 3r, 11m. 13d. 972.5 lbs. 13dl. 602 lbs. fat, 507 lbs. butter.—W. H. 1. 2 lbs. fat, 507 lbs. butter.—W. H. 2 lbs. 13dl. 602 lbs. fat, 507 lbs. mili. 2. 2 lbs. article 2022 lbs. butter.—W. H. 15. 2 lbs. Article 202 lbs. butter.—Wilher Lemon. Beauty, 21460, 3r, 7m. 2013 lbs. mili. 51. 201 lbs. fat, 22.21 lbs. butter.—J. W. Hichardson. 19704, 3r, 7m. 2014, 490.3 lbs. mili. 2. 201 lbs. butter.—J. W. Hichardson. 19704, 3r, 7m. 201. 202 lbs. butter.—W. H. Cherry, Hagowards. 57, 9m. 201. 524 lbs. milk, 15.0 lbs. fat, 12.6 lbs. butter.—W. H. Cherry, Hagowards. 3r, 7m. 201. 202 lbs. milk, 15.0 lbs. fat, 12.6 lbs. butter.—J. J. McKay, Cornwall. 273.3 lbs. milk, 15.0 lbs. fat, 17.6 lbs. butter.—J. 7. Forest Hago Segis Gladys. 2023, 3r, 6m. 214, 277.4 lbs. milk, 15.6 lbs. fat, 17.1 lbs. butter.—J. Cord., 2073, 3r, 4m. 204. 2023 lbs. milk, 12.6 lbs. fat, 15.7 lbs. butter.—Gordon. 6. Gooderham, Glarkson.
9 Kassie Netberland lbs. Kol, 2074, 3r, 4.

The Farmers' Grain Exchange

H. L. Maynard, one of the seed corn raisers of Essex County, says that 40% of the corn shelled and sold for seed could never be sold as such if it were left on the cob. Surely this is a hint to our dairymen, Farmers' Clubs and others as to how they should select their seed corn for next year's crop. Even now is not too early to look about for the best seed. Note "The Farmer's Grain Exchange" on page 9, and the advertisements of our big seed merchants elsewhere. Buy the best—and in corn—buy early.

The next issues of the "Grain Exchange" will be in our Orchard and Garden Number of March 2. If you don't find advertised in it the kind of seed you desire, write us and we shall endeavor to advise you. If you have GOOD SEED of standard varieties to offer, let us help you to sell it through our coming issues.

ter 14-day record: 5y. 2m. 12d.; 980.6 lbs. milk, 36.28 lbs. fat, 46.36 lbs. butter.—A. C. Hardy, Brockville. 2 Hosa Bonheur Flower, 24620, 5y. 2m. 23d.; 519.0 lbs. milk, 16.20 lbs. fat, 19.01 lbs.

7m. 25d.; 425.7 lbs. milk, 21.05 lbs. fat., 15.75 lbs. butter.—M. J. McKay, Cornwall.

Jr. Three-Year-Class.

1 Lady Segic Garmen, 2535, 3y. 2m. 12d.; 24d. 3lbs. milk, 258 lbs. fat, 1237 lbs. butter.—Lakeview Farm, Broute.

6 Pictic's Peach, 2546, 5y. 2m. 12d.; 24d. 3lbs. milk, 258 lbs. fat, 1137 lbs. butter.—Lakeview balssy 5d. 3lbs. butter.—B. J. Kelly Culloden.

7m. 25d.; 25d. 3lbs. butter.—A. C. M. J. McKay.

Marky, Brocker's P. 25d. 1351.

Marky, Brocker's P. 25d. 12d.; 25d. 5bs. butter.—M. J. McKay.

M. J. McKay.

Jr. Two-Year-Class

| Bland | Direct | Di

SOLUBLE SULPHUR



J. W. Clark of Cainsville, Ont., says, "There is no question about the Soluble being cheaper and more convenient to handle." Ask for our Bulletin No. 4 on practical experiments with Soluble Suphur in commercial orchards

Niagara Soluble Sulphur

WHIGHT 600 LBS.

The second states are second states and second states are second states and second states are second states. It's chapper, each and states like paint. It's chapper, each states like paint and apply, no clogging of nos

100 lbs. Soluble Sulphur makes more spray than a 600 lb, barrel of Solution It saves freight and storage, as it is conveniently packed in cans of 100, 55, 35, and 10 lbs. Works quicker and better than Solution. Gives a perfect control of SAN JOSE and FUNGOUS DISEASES.

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ARSENATE OF LEAD Brand guaranteed, high-est grade – 1% areanic Clear and uniform at all phur, powdered Ar-stays mixed.

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WHEREVER FRUIT EXCELS, NIAGARA SPRAY IS USED.

Let us Quote You on Requirements.

The Niagara Brand Spray Co., Limited BURLINGTON, ONTARIO

*** 9000 TOR

pecially impetus In som there were the cause The farm because The farm beause firmly live steepers and the control of the cont The r this laidrop o in parr profits. mandee at belo ping a the ma wheat : parlson 50c a b ers, hoo before Norther No. 2, is proute ed or s wheat;

Coarse has bee sharp a differen Oats, O No. 3, No. 3, tario o oats, 42 adian, 1 ley, ma rye, No buckwh Montr white, 4 barley, buckwh

The n tations seed an held an els. Bi middling meal, s \$38; glu follows: \$28 to \$ The h

receipts in the hay being regarding the that the than the is quote baled st No. 2 grades

The T what it ing and that he butter of the form obtained creamer tober n willing of Easte ed on t

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m 4d.

ly. 5m.

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tion.

ted



A Few Canadian Ayrshire Breeders and Their Friends.

MARKET REVIEW AND FORECAST

TORONYO. Peb. 14.—More seasonable sold at 18 to 36 in a jobbing way. The generally. The snow fail has been expectably webcome as it has given a great a great at 18 in the little of the process of the p

rich Browdrift, consigned by R. J., Kelly Some Browdrift, Consigned by R. J., Kelly Some Charles of Solid So

- LAKESIDE AYRSHIRES -

A select lot of young bulls, all ages, sired by Auchenbrain Sea Foam (Imp.) 35758 (8865), Grand Champion at both Quebec and Sherbrooke, from Record of Performance Dams. Write for catalogue.

GEO. H. MONTGOMERY Dominion Express Bldg., MONTREAL Manager : D. McARTHUR PHILLIPSBURG, QUE.

KORNGOLD IMPROVED ENGLISH YORKSHIRES

F. J. McCALPIN, Korngold Stock Farm, GANANOQUE, ONT.



This Year Grow Bigger Crops

Make up your mind that you will make each acre yield a bumper crop this year. Fertilize more thoroughly than you have ever done before.

are strictly high-grade. They have proved their worth and are recommended by progressive Canadian farmers from the Atlantic to the Pacific. They are thoroughly mixed, well balanced, complete in every way. Following are the principal lines for 1916.

Guaranteed Analysis

Ammonia	Available Phos. Acid	Potash	Ammonia	Available Phos. Acid	Postash
2	10	0	3	10	. 1
3	10	0	4	9	- 1
4	10	0	0	10	2
5	12	0	2	9	2
0	12	1	3	7	2
1	12	1	-1	8	3
2	10	1	2	7	3

Our 1916 Fertilizer folder contains complete particulars about Harab-Davies Fertilizers. Write for it.

The Ontario Fertilizers

West Toronto, Ontario

Hay, Grain Farm Stock Implements Horses, etc.

Registered Holsteins

THREE MILES EAST OF NORWICH

This herd of Registered Holsteins are from No. 1 Stock and prove their worth at the sworth at the sworth at the worth at the sworth at the swo

TERMS: Four months credit on bankable paper. Six per cent. off for cash Sale starts at Ten o'clock sharp. Cattle sold between 12 and 4.30 trains.

LONGWORTH and ALMAS, Auctioneers

CHAUNCEY POOLE -NORWICH, Ont.

FAIRMONT HOLSTEIN HERD

Is headed by King Segis Alcartra Calamity, the \$2,000.00 son of the \$50,000.00 Bull. Young bulls for sale ready for service from high record dams at value. Others a little younger sired by King, with two nearest dams averaging over 30 lbs. in 7 days. If you want to raise the standard of your herd, write-PETER S. ARBOGAST, R. R. No. 2, MITCHELL, ONT., SEBRINGVILLE STN.

LAKEVIEW STOCK FARM, BRONTE, ONT. Lakeview Dutchland Artis, No. 21111

Milk 567.7 in 7 days. Highest day's milk 66.6. Average 31.7 hat 27.755. Butter 31.65; 4.88 per cent.

Milk, 160.5 in 4 days. Highest day's milk, 87.3. Average, 82.9. Fat, 49.255. Butter 61.87; 4.39 per cent.

Milk, 320.1 and 30 days. Highest day's milk, 87.3. Average, 62.9. Fat, 49.255. Butter, 10.96. Average test, 3.69 per cent.

T. A. DAWSON, Manager.

T. A. DAWSON, Manager.

VILLA VIEW HIGH-TESTING HOLTEINS .

VILLA VIEW HIGH-TESTING HOLTEINS

Now is the time to buy a son sired by King Segia Alcarira Calamity, the \$2000

35-lb. show buil, sired by the \$80,000 buil. Only a tree youngsters, three months

1915 Guello Champion and two of her slitters are at our farms to be bred to

King? Send for Pedigree and Prices.

SEBRINGVILLE ONTARIO

RIVERSIDE HOLSTEINS For Sale, Choice Young Bulls, sired by son of Pontiae Korndyke, and a brother of Pontiae Lady Korndyke, a grands on of Pontiae Lady Korndyke, 300 butter in 7 days, 1952 lbs. 30 days—world's cord when made. Also females bred to King." J. W. RICHARDSON

KING SEGIS PONTIAC WAYNE -A fair individual, born Dec. 6, 1914. His dam, Elmdale Mabel, a 190-lb, 4-year-l, with 25 lbs. butter. His sire, King Segis Pontiae Duplicate, a son of King ris Pontiae and a sister to the first 44-lb, cow.

M. HOLTBY

R. R. 4

PORT PERRY

Choice Ones for Alberta College

The Agricultural Department of the University of Alberta at Edmonton has just recently secured some well-bred and well-backed Holstein foundation stock, from the Rilliside herd of W. A. McCryo of Chesterville, Ont. They include two daughters of 20,000-lb. R.O. P. cows and a gd.-daughter of a 20,000-lb cow out of a 18,79-lb. Two-year-old. Each we were purchased for class work at the College and are necessarily good individuals. Mr. McElroy is to be congratulated on placing such where there materials for the college herd. In writing us a long target of the college herd. In writing us a long target of the college herd. The writing was also rate shat through Parm and Dairy he has also sold days ago, he college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. The writing us also target with the college herd. of big animals,

There is still a big demand for the right kind of well-backed Holsteins. If There is still a big demand for the right kind of well-backed Holsteins. If there is the big demand for the right kind of well-backed Holsteins. If the big demand is the right kind of the big demand for the right kind of the

FARM AND DAIRY

PETERBORO, ONT.

Kol. 8126, J. W. Allin: Grace Pistertie De not qualify under the B.O.P. ruled? Leaven. Weilandi Pauline Ena. 8106, Fred Sinden Belmont; Hasel De Kol. Lindley, 8110, Fred Sinden. Leaven Weilandi Pauline Ena. 8106, Fred Sinden. Leaven Weilandi Pauline Calandiy Gueen, 8306, H. W. E. Burn-Harton, 1806, H. W. E. Burn-Harton, 1806, F. W. Allin: Mary Ann Morwena, 8306, H. W. E. Burn-Burnaby; Mary Ann Harton, 810, F. W. W. E. Burn-Burnaby; Mary Ann Harton, 810, Fred W. Lee, Springford, Lady Oxford, 850, E. O. K. M. K. E. W. Lee, Springford, Lady Oxford, 850, E. O. See Would have made about 5,000 more principle of Campbelltown, 810, O. H. Brown. M. Lee, Springford, 180, Fred W. Lee, Springford, 1

SALES DATES CLAIMED.

SALES DATES CLAIMED.
Auction said of Registered Hostetin Cattic, Grange Stock Farm, Listowel, W. S.
Scharer, Feb. Norwich, dispersion saie of
Hostetin, St. Norwich, dispersion saie of
Hostetin, auction, Feb. 29.
B. Eagleson, Mongolia, dispersion saie,
pure breed and grade Holsteine, registered
Gyies and Berishires, March 21.
Oxford District Hoistein Breeders' Club,
March 16.—W. E. Thompson, Woodstock,
Complete dispersion saie of 100 head of

Sec.-Treas.

Complete dispersion sale of 100 head of pure bred Holsteins.—W. C. Stevens, Philipsville, May 3.

Brockville District Club, sale of Holsteins, about 75 head, May 48.—G. A. Gilroy, secretary.

WHAT IS A CHAMPION? WHAT IS A CHAMPION?

DITOR, Farm and Dairy.—I would like to have you let me know through your valuable paper why a breeder can advertise his cow "Canadian Champion," when she does not freshen inside of the required 15 months, and therefore does

foundation purposes. The offerings will be found listed in Farm and Dairy from week to week. Look them up.

SHADELAWN STOCK FARM DISPERSION

50 HEAD 50 BRED Holstein-Friesian Cattle



To be held at my farm Two Miles West of

NORWICH, ONT.

ONE P.M. SHARD

Conveyances will meet trains at Norwich at 11.50 a.m. on day of sale.

n placing our herd of Holsteins at your bid on March 1st, we are offering to the Holstein breeders of Canada the result of thirteen years of consistent ding and selection to produce "a business herd backed by the best of breeding." When you see our herd you will say that in a great degree we have clotd. The foundation animals for Shadelawn Holsteins came from the well-known herd of W. H. Clemons. Later these were strengthened by our pure with Mr. Rettie of two carloads of purebreds of the high-testing "Canaries." from H. S. Day, the Michigan breeder. On these females, we have used sires of the best of breeding. Here are a few of them:

With 25 officially tested daughters, and whose dam Mercena—a Canadian champion—made 27.63 lbs. in 7 days.

Could you ask for better sires? This is the blood babtar.

Zind—PRINCE ABBERERK PAULINE

(With 14 tested daughters and 5 proved complete and 5 proved prom from from Mr. Bollett's great cove—Tydy data from from Mr. Bollett's great cove—Tydy data over 700 lbs. milk in 7 days.

Zind—PRINCE ECHO SYLVIA'S GERBEN

The only bull in the world, unless from from from and stydy-days each given over 700 lbs. milk in 7 days.

Sind—PRINCE ECHO SYLVIA'S GERBEN

Most of our young stock is by this one filter a proving stock is by this one filter. He is not from from from the same dam, whose dam, ed. one filter a proving stock is by this configuration.

The only bull in the world, unless from from from and stock of our young stock is by this one filter a proving stock is by this one filter a proving stock is by this configuration.

The only bull in the world, unless from from from and stock of our young stock is by this one filter a proving stock is by th

Could you ask for better sires? This is the blood behind our great string of females of which there are

20 GRAND-DAUGHTERS and GREAT-GRAND-DAUGHTERS of the GREAT MAY ECHO SYLVIA We invite every breeder to attend our Sale on March 1st, and see these and our other splendid offerings.

Write to-day for a catalogue. It gives you full details.



MOORE & DEAN T. L. DUNKIN, Shadelawn Stock Farm, NORWICH, Ont.



Febru

Mature

1. Lawr 57, 10m. 2. 30-day r milk, 110.1, 40-day r milk, 110.1, 40-day r milk, 110.1, 14-day re
milk, 44.16
30-day re
milk, 92.71
6. Nether
3d.; 561.9
1bs. butter.
7. Wooder
7m. 28d.; 6.
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Vaudreuil,
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9. Hesseltj
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561.1 lbs. z 10. Minnie 561.1 lbe. r. butter.—Fre 11. Braem 8m. 22d.; 4 25.83 lbe. 4 12. Anna l. lbe. milk. 2 30-day rec milk, 84.59 A. O. Hard. 13. Magada 17d.; 553.7 lbe. butter.— 8r. For Sr. For 1. Pietje S 559.5 lbs. n 559.5 lbs. m butter. 30-day reomilk, 89.37 A. O. Hardy, 2. Welcome lbs. milk, 21 —Louis L. 3. Pietje K 35d.; 522.8 ll bs. butter.— 4. Rose B 447.8 lbs. m butter.—Jam. 6. Orndyke 4y. 8m. 19d.; 25.24 lbs. bu 25.24 lbs. bu

HEA Pure Br

On

Magadora of Avondale, 13197, 6y. 6m. ; 710.9 lbs. milk, 23.71 lbs. fat, 29.65

17d.; 720.9 108. Buth. 2015. Bls. butter. 35-day record; 67. 6m. 17d.; 302.6 bls. butter.—35-day record; 52.5 17 bs. butter.—6. A. Gilroy, Glen Buell. 6. A. Gilroy, Glen Buell. 10. A. Gilroy, Glen Buell. 10. Butter.—10. A. Belloy, Glen Buell. 10. Butter.—10. A. Gilroy, Glen Buell. 10. Butter.—10. A. Gilroy, Glen Buell. 10. Butter.—10. Sept. 10. Butter.—10. Butter.

18d.; 653.8 bs. mills. 25.47 bs. fat. 28.36 bs. butter.

15day record: 57. 66n. 25.1; 1003.3 bs. mills. 1004.0 ks. butter.

15day record: 57. 66n. 15.1; 1003.3 bs. mills. 25.71 bs. fat. 115.90 bs. butter.—

15day record: 57. 66n. 15.15.90 bs. butter.—

15day 15day

11m. 00.; ca.5 10m. mess over the series. 25.2 lbe butter—W. H. Cherry, Hagerra, 9. Hesseltje Kanthine, 1757, 57, 5m. 14, 58.1 lbe. mill. 20.9 lbs. fat. 26.15 lbs. butter—Donat Baymond, Montreal, Que. 16. Minnie May Koyes, 1531, 167, 4m. 164. 16. butter—Pred Stock, Train, 164, 25.6 lbs. butter—Pred Stock, Train, 164, 25.6 lbs. butter—Pred Stock, Train, 164, 25.6 lbs. fat. 25.4 lbs. fat. 25.7 lbs. fat. 25.4 lbs. fat. 25.6 lbs. fat. 25.6 lbs. lbs. fat. 25.6 lbs. milk, 20.45 lbs. fat. 25.6 lbs. milk, 20.45 lbs. fat. 25.6 lbs. butter—A. 4.6 lbs. fat. 25.6 lbs. butter—A. 4.6 lbs. fat. 25.6 lbs. butter—A. 6.6 lbs. fat. 25.6 lbs. butter—A. 6.6 lbs. fat. 25.6 lbs. butter—A. 6.6 lbs. fat. 25.6 lbs. butter—M. 6.7 lbs. fat. 25.7 lbs. fat. 25.6 lbs. butter—A. 6.6 lbs. fat. 25.6 lbs. butter—M. 6.7 lbs. butter—M. 6.7 lbs. fat. 25.6 lbs. butter—M. 6.7 lbs. fat. 25.6 lbs. butter—M. 6.7 lbs. butter—M. 6.7 lbs. fat. 25.6 lbs. butter—M. 6.7 lbs. butter—M. 6.7 lbs. butter—M. 6.7 lbs. butter

1. Pretty Stars Jowed, 13902, 49, 6m. 11d.; 5954 bbs. milk, 23.87 bb et att, 27.68 bbs. 5954 bbs. milk, 23.87 bb et att, 27.68 bbs. 50.63 v records 49, 6m. 11d.; 23341 bbs. milk, 23.78 bbs. fast, 117.11 bbs. butter—A. C. Harchy. Lee, 15693, 49, 11m. 254, 478.4 bbs. milk, 23.26 bbs. fast, 56.6 bbs. butter.—Louis L. Wettlautter, Tavistock. John Charles L. Wettlautter, J. Wettlautter, J.

| Description | Course | Cours

utter.

44-day record: 4y. 5m. 12d.; 811.8 lbs.

1ilk, 25.13 lbs. fat, 31.41 lbs. butter.—R.

Kelly, Culloden.

Sr. Three-Year Class, over 19 lbs.

1. Colantha Butter Girl. 2529, 3y. 8m.

93.; 580.0 lbs. milk, 24.69 lbs. fat, 39.67

butter.

1. Colamba Butter Girl. 2009, 5y. 8m.
10d.; 550.0 bs. milk. 54,0 bs. fat. 50.07
lbs. butter.
10d.; 550.0 bs. milk. 54,0 bs. fat. 50.07
lbs. butter.
10d.; 550.0 bs. milk. 54,0 bs. fat. 50.07
lbs. butter.
11d. 10d.; 540.1 bs. fat. 550.0 bs. butter.
12d. Mildred Putert-jo Abbeherk, 2509, 5y.
18d. butter.
12d. Milkred Putert-jo Abbeherk, 2509, 5y.
18d. butter.
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utter. 30-day record: 3y. im. 1d.; 2198.4 lbs. 7.11 lbs. fat, 96.39 lbs. butter.—M. H 77.21 10s. say, Haley. 2. Calamity Snow Mechthilde 2nd, 26707, 5y. 6m. 1d.; 442.1 lbs. milk, 17.50 lbs. fat, 21.68 lbs. butter.—Walburn Rivers, Inger

Lady Pauline Colantha, 22.50, 5y. 0m. 41.6 lbs. milk, 16.23 lbs. fat, 20.29 butter.—A. E. Halet. Colony Seesle Canary, 26506, 5y. 1m. 486.5 lbs. milk, 15.86 lbs. fat, 19.83

ibs. butter.

30-day record: 57: Im. 94, 1996.1 lbs. hutter.

50-day record: 57: Im. 94, 1996.1 lbs. nilk, 63:09 lbs. fat, 72:66 lbs. butter.—

60-long Farm, Bescndale, Farmer 1996. 1992.

57: Im. 1961. 482: huttand Kornstyne. fatel, 93: 482: huttand Kornstyne. 1992.

57: Im. 1961. 482: huttand Kornstyne. 1992.

57: Im. 1961. 482: huttand Kornstyne. 1992.

58: Two-Year Class, over 17 lbs. 18. 19. 19. butter.—D. A. Grant, Cornwill.

1. 1961. 1962. 1962. 1963. 1964.

A. Caskey.
2. Blossom Hengerveld, 25369, 2y. 8m. 6d.;
412.6 lbs. milk, 16.78 lbs. fat, 20.99 lbs. but. 425.6 lbs. milk, 157.6 lbs. 66.; 806.4 lbs. milk, 45.57 scoots 27.6 lbs. butter. — A. O. Hardy, 25.6 lbs. butter. — A. O. Hardy, 8. Beauty De Kol Calamity, 2965, 29. 9m. 84. 65.1 bs. milk, 16.5 lbs. fat, 20.6 lbs. butter.—GContinued axx week) -Watch Our Ad. for the Next 6 Weeks

LAST BUT NOT LEAST! Third and last offering of Young Bulls fit for service. A 19 months' son of Pontiac Hermes out of an R.O.P. dam, 5,89 lbs. milk as a 2-yr.-old milked twice daily. Price \$75, delivered anywhere in Ontario.

E. B. MALLORY, Bayside Stock Farm, BELLEVILLE, Ont.

Bulls Fit for Service -

A No. 1 Bull, dam Helena Pauline Korndyke, 1111/2 lbs. milk in one day. 29.97 A NO. 1 Bull, dam Recent Fauther Morningas, 21272 108. Milk in one day; also two more bulls closely related to this cow. For full particulars address—

B. E. HAGERMAN

HAROLD, ONT.

Yearling Bull For Sale

Yearling Bull from a heifer with 91.56 lbs. butter in 500 days, R.O.M., as a 2-yr. old; 5 bulls coming a year and one 6 moz. old. Also some choice young females for sale. These are all from dams with high official records. They are going at a bargain. If you want one write quick.

W. J. BAILEY - Lyndenwood Farm

- JARVIS, Ont.

Elmcrest Holstein-Friesians

Almost sold out of Bulls. The two 29-lb, Bulls are both gone-you spoke too late. I have some excellen. Cows and heifers for sale, all ages, and if in need of a car or two of good Lucerne just write or phone. W. H. CHERRY · · Bell Phone. HAGERSVILLE, ONT.



GLENDALE STOCK FARM offers for sale Sie, Bulls (Imp.). His first five sons and daughters at a goldy for service, street by from 50 to 575; blood of the error, street by street by street by the stree

R.R. No. 1

FOXBORO, Ont.

-SIRES READY FOR SERVICE-

SIRES READY FUR SERVICE.

Today we are offering several good ontail; sires ready for work. One of these is out of a sister of flet Loo Boon (81.38 at 1). Sires ready for work. One of these looking, Rag apple Korndyke th. These sires are priced very reasonable and according to the state of the sires are proposed to the several control of the s

For Sale-A Fine Holstein Bull Calf

A splendid individual. A dandy. Dam. Perrina Faforii Butter Girl, a junior over 8,000 lbe. Milk testing almost foru butter fat.

Sire, Ourvilla Sir Teake Colantha, a grandson dischantha Johanna Lad.

MICHAEL A. ARBOGAST

Fineview Stock Farm. R.R. 3, STRATFORD, ONT.

- 4 HOLSTEIN BULLS FOR SALE -

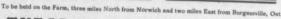
Sired by Sir Johanna Pontiac Korndyke. Dams are daughters and grand-daughters of Sir Pietertie Posch De Boer, with milk up to 100 lbs. per day. Good De Dereding. Great producers. Priced very reasonable.

R. B. 1. SCOTIAND ANY. R. R. I. SCOTLAND. ONT.

Complete Dispersion Sale =

Pure Bred !





On TUESDAY, FEBRUARY 29th, 1916



For twenty-two years, we have been breeding Holsteins, during which time we have been devoting special attention to developing a strain of heavy producing, high-testing individuals of true Holstein type. The herd consists of nine head over five years; Five 4 year olds; Nine 3 year olds; Na 2 year olds year olds; Five yearings and fourteen under one year. Five (f these cows were in milk test at Guelph this year and

Five yearings and rourisen under one year. Five (I these cows were in milk test at Guelph this year and made a good showing.

The last two years' crop of calves are from bulls whose dams have records of over 30 lbs. butter in seven days and many from cows with good official records. The young stock affords a great opportunity of getting the very best of breeding at your own price. Daughters of some of the best cows that have been CATALOGUES GIVE ALL INFORMATION. WRITE FOR ONE.

Will meet Eight o'clock train from south and west at Burgessville only.

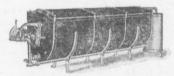
MOORE & DEAN RETTIE BROS., R.R. No. 1, BURGESSVILLE, Ont.

There has never been a more opportune time for Canada to make large sales of butter in the United States than now.

But this butter must be made from pasteurized cream!

The New York City daily papers have been conducting a very vigorous campaign for better butter that has been pasteurlzed.

This campaign has resulted in an enormous demand for the pasteurized product.



The BEAVER-JENSEN Ripener-Pasteurizer which we are selling meets every requirement of pasteurization and "makes good" wherever it has been installed.

We will be glad to furnish full particulars upon request.

W. A. DRUMMOND & CO. TORONTO, ONT.

Canadian Representatives for the

J. G. CHERRY COMPANY, Cedar Rapids, IOWA, U. S. A.

Sydney Basic Slag

Is the greatest Clover producing fertilizer obtainable. By growing clover you build up the fertility of your farm. Ask any man from the Old Country what Basic Slag has done for the farmers there. Try Basic Slag for yourself this season. It costs \$20 per ton, which is better value than you can get in any other fertilizer.

Write us at once.

THE

Cross Fertilizer Co. Limited NOVA SCOTIA

SYDNEY

The Lily Bowl Gets the Cream

REAM is worth too much to waste, yet it is being wasted by the ton every day by oldfashioned methods of skimming. Today there is no excuse for such waste. The Lily bowl gets all the cream it is possible to get, leaving only a drop or so to the gallon of skimmed

milk.

Let's take a close look at this wonderful bowl. It is compact and convenient to handle. It lifts off the spindle, leaving the spindle in the separator where it belongs. It comes apart easily, but it can't leak. The disks provide a greater skimming surface than is found in other bowls. Combined with them are six cream gatherers—just twice the number other separators have. Separation begins the instant the milk enters the bowl, and there is always a clear passageway for

the milk enters the bowt, and there is always a clear passageway for the cream.

The cream regulating except in the cream passage—
The you make your cream thicker or thinner by regulating the amount of milk mixed with it, but thick or thin, you get all the cream when you use a Lily cream separator.

The bowl is not the only good Lily feature. The McCormick local agent, who sells Lily cream separators, will show you how every other feature is worked out just as carefully. See him or write us at the

International Harvester Company of Canada, Ltd.

ternational Harvester Company of School Harden Albert Houses
At Brandon, Calgary Edmonton, Educaten, Hamilton, Lethbridge,
London, Montreal, N. Battelorio Criava, Quebec, Regina,
Saskatoon, St. John, Winniper, Yorkton

Henry Glendenning Says:



Has been endorsed by the Leading Farmers and Agricultural Experts of the Dominion. A user of the Outsway has never been known to discard it for any other disc. On any kind of land-at every season—it will do better and quicker work than any other. It is one of the implements that should be on every progressive farm.

YOU CAN HAVE ONE ON YOUR FARM FOR A FEW DAYS WORK

The farmer who realises the im-portance of stirring and pulveris-ing the soil so that the sun and air and moisture can reach every particle, is the man to whom the CUTAWAY double action HARROW

Farm and Dairy has made arrangements to secure a few of these popular dises to offer to its readers. Each has twenty 18-inch scalloped steel disco-the scalloped disc that is the distinctive feature of the CUTAWAY HARROW.

Any farmer or farmers' club can secure one of these harrows without by cash outlay. We are devising a scheme by which one can be obtained only a few hours' work. Watch for the announcement of our great

CIRCULATION CONTEST

It will be given in next week's issue of Farm and Dairy. If you are in-

FARM AND DAIRY

PETERBORO, ONT.