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boary proverb. In all the realms of science, art and invention, nothing has ever been accomplished by any "sudden flight" of genius, but rather by the system of patient plodding and experiment, and the application of the wise man's principle of "line upon line, precept upon precept, here a little, there a little." That is the story of the development of the cream separator and the milking machine which finds its climax in the perfected

Simplex BLADE Separator B. L. K. Mechanical Milker

It has taken many years of patient labor and experiment with all kinds of separators and milking machines to produce one now perfect SIMPLEX SEPARATOR and the B. L. K. MILKER, two of the greatest money savers and money makers on the modern farm. Write us for information on the B. L. K. Milker and Simplex Separator. To it now. To-morrow you may have bought a milking machine that will be a disappointment. You take no risk with the B. L. K. Ko Simplex. They have been a demonstrated success on hundreds of farms throughout the Dominion.

D. DERBYSHIRE CO., Ltd., BROCKVILLE, ONT. Branches:-Peterboro, Ont. Montreal and Quebec, P.Q.

We want agents in a few unrepresented districts.



Two Years of Satisfaction W. J. Barber, Prince Edward Co., Ont. HAVE used the B. L. K. Milker in My herd for two years, milking the second second second second the second second second second has worked very antifactority, with no bad effects on either udders or teats. The cows take kindly to it, in fact, nervous cows can be milked with 1; that can hardly be milked by hand at all.

"It is a great labor saver, as two reen can milk and tond to the milk in less time than five or six could by hand previous to installing the machine. Regarding the cost of the upkeep of the machine, I have found it very light—a few rubber tubes occasionally. I believe the milk is as free from bacteria as the hand-milked product, providing the machine is keep perfectly clean, which is a very easy matter by first trinsing in coid water parter by first trinsing in coid water once a week, which keeps it sweet and clean. The milking machine is coming

The milking machine is coming more in favor each year, and will, I believe, continue to do so, on account of the searcity of labor and the good work some of the machines are doing.

Big Profit in Cows J. H. Purvis, Ontario Co.

In answer to the question. "What is the cost of keeping a cow" perhaps the following may be of general interest. As we have a large herd of cows, and weigh both feed and milk, we try to find the actual cost of feed, manurial value, etc. We believe in the 10,000-pound cow, and might say that eight grade Holsteins, with an average of four months aline freshening, have given 39,000 pounds of milk. We believe they will average 10,000 in the year. The cost of feeding is a big item, and as we feed ensilage the year round, we can arrive pretty near at the cost of production. Each cow receives the following each day in the 255:

3 lbs. Cottonseed Meal at 1%c 3 lbs. Oil Cake Meal at 1%c 6 lbs. Bran at 1%c 40 lbs. Silage at 15c cwt. Labor per day Interest on cow equipment, etc.	5¼c 7½c 6c 5c
Per day	31c
Total For Year.	

1.039 1	DS.	0.0	110	nse	66	a.	M	eal	۰.		.\$19.05
1,095 1	bs.	Oil	C	ak	e						. 19.05
2,190 1	bs.	Br	an								27.37
14,600	lbs.	S	ila,	ge							. 21.90
Labor	2,241										. 18.25
Interes	t			• •	1.						. 7.30

Manurial Value

\$111.92

1.095	lbs.	Cot	tor	19	ė	ė	í.					. 8	3.00
1,095	lbs.	OIL	Ca	k	è								11.00
2,190	lbs.	Bra	n										13.00

\$37.00 Value of ensilage for manure would balance other roughage consumed. 10,000 lbs. of milk at 1%c\$175.00 Cost of feed, labor, etc.11.92

Total profit\$100.08

The cow that the dairy farmer needs is the one that converts feed into milk and butter and gives more milk and butter as the feed increases. Cows of this kind are practically all found within the four great dairy breeds.

An abundance of good fresh water is almost as important to the cows as abundance of fresh pasture grass. If there is a spring creek in the pasture, well and good. If not, a windmill and trough make good substitutes.



Suppose one of your most valuable cover gets seriously injured or sick and a veterinary in a hurry. If you have a telephone you can call him immediately and save an animal that might otherwise die.

This is only one use of a telephone on the farm. Our handsomely illustrated book, "Canada and the Telephone," gives numerous uses. Send for a copy. it's free.

The Provincial Governments recognize the advantage of telephones in rural districts and practically all of them have done something to encourage the construction of independent telephone systems.

ent telephone systems. In Ontario, the Government has given municipalities the right to build and operate independent telephone lines. In Nova Scotla, the Government bonuses independent rural telephone systems. In Saskatchewan, the Government lends its support. And so on.

If your community is without telephone service it is high time to get busy and secure it. Call a meeting of the residents and organize. We will supply you with all necessary information free. Our experience in satisful in the organization of the majority of independent focal and municipal telephone systems in Ontario is worth money to any prospective telephore system and insures gettion started on a naving heats.

ting started on a paying basis. Our telephones are of the very highest quality and most modern design. Our construction materials are guaranteed first quality. Our prices are In many instances, we right. can do unusually well for our customers because we were fortunate to make large contracts some time ago at exceedingly favorable rates. The raw materials entering into the manufacture of telephone construc-tion supplies have steadily advanced in price on account the huge demands caused by war orders. There are certain to be further advances, too. Any independent local or municipal system should be sure to get our quotations before placng an order.

Canadian Independent Telephone Company, Ltd. 269 Adelaide St., W., Teronto

April 6, 1916.

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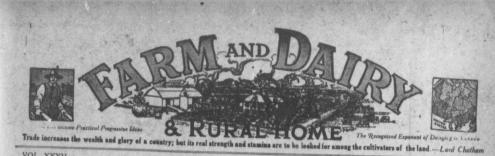
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VOL. XXXV.

PETERBORO, ONT., APRIL 6, 1916

Shall I Buy A Milking Machine This Year?

In Answer Several of Our Folks Contribute Their Experiences

THAVE always been slow to advecate the milking machine very strongly; some people who have used them have not continued their use. Can now say, however, after using a Sharples Milker (three unit) since a year ago last July, that I would not think of going back to hand milking, and I cannot see why any man that can run a gaseline engine cannot operate a milker satisfactorily. Any little troubles we have had have been ordinary engine troubles, and only once in that time have we not been able to use the milker, and then I was away, both men had enlisted and I had had a new man only a week. A slight leak in a connecting pipe caused the trouble

We have milked a four-year-old with it this winter that gave 100.5 lbs. of milk in one day, and a two-year-old that gave 91 lbs. in a day. I have milked the latter heifer continuously for 11 months, and she has now given 18,300 lbs. of milk in that time. Our herd are all pure-breds, and all test cows, etc., are milked with the machine.

Spead of the Machine,

With three units two of us can milk the cows in just about half the time we could by hand. One changes the units and the other does the stripping, which in most cases is only a few ounces; I have often found more milk in a cow's udder after hand milking than after a machine; but to get best results I would advise hand stripping.

The machine is best appreciated when the cows are milking heavy, as the fame changing and stripping does, and this is where they make the time. One person that is used to it can run two units and do his own stripping, which we often do in the summer time, especially at the after dinner milking.

It is not the same trouble to get men to milk with the machine as it is by hand, and we do with one hand less; besides, my wife never milks now, and always did before we got our mechanical milker.

Repairs for teat cup inflations, and everything to date, have been under \$4. We have had no udder trouble in any way since installing the machine, and cows seem to even like it better than hand milking; even when just put on they centinue in some cases to chew their cud.-R. M. Holtby, Ontario Co., Ont.

Produces Certified Milk

And Does It With A Milking Machine

E. A. PARSON, Carleton, Co., Ont.

INSTALLED two B-L-K units in April, 1913, after giving a 30 day trial to another make of milker. From the outset they have given me the best of satisfaction. Since installing I have not had to milk by hand more than six times at the outside, and this was not caused by the milker, but by some slight trouble with the power. Regarding the running expenses, as there is so



As Good As His Right Hand

wN the old Province of Quebec, where the dairy cow is supreme, is a dairy farmer who can very truthfully say that his milking machine is worth as much to him as his right hand. Mr. W. F. Stephen, in a recent address at Lindsay, Ont., tells of this dairyman's experience as follows:

"One instance that has come to my notice of the benefits that may be derived from the installation of a milking machine, is that of a young farmer who had established a profitable dairy herd, and who was getting along very nicely and making money. He then met with the misfortune of losing a hand, which incapacitated him for milking, with the result that he had to sell out his herd and go back to grain farming. He found, however, that it was impossible for him to pay off the mortgage on his farm by grain growing. He then purchased a milking machine and re-established his herd of good dairy cows. He is again a prosperous dairy farmer."

This year many dairy farmers with two good hands will find the milking too great a task with the scanty and inexperienced help available. Thousands any enquiring about the milking machine. To give this information Farm and Dairy publishes in this issue letters from seven users of milking machines of standard makes. Our folks who thus testify to the merits of the, mechanical milker, speak from experience, and their testimony is good.

little rubber about these machines, the costs for replacements are practically negligible. As for experience needed to operate I must say that any man, with average intelligence, and a geniune desire to make machine milking a success, will get along with a B-L-K:

One great trouble with most milkers is, the pulsators sticking, being erratic and generally causing trouble, especially in cold weather; the B-L-K pulsator is simplicity itself. It runs with extremely little attention, and is very easily regulated when desired. Now, as regards cleanliness, I am confident my machine is hard to beat, there are no inner brings to crack and accumulate filth, and as there are so few rubber parts about the machine st all, it is a comparatively simple matter to thoroughly sterilize all parts. My contention along this line, I think, is quite proven, when I state that I have been furnishing certified milk to Ottawa for nearly a year; in fact, I am the only dairyman in this district producing this class of milk. When you remember that the law requires certified milk to contain not more than 5,000 bacteria per c.c. for eight months of the year, and 10,000 per c.c. for the balance of the year, I think that it must be clear to anyone that whatever machine I am using, it must be capable of thorough sterilizing. I have had counts as low as 1,500, and plenty of 2,000 and 3,000 counts, and these, of course, are all taken by our city inspector from the delivery rig on the streets.

No. 13

20 Cows an Hour.

As regards the time taken for milking, I know that it must take me more time than if I was not producing the certified aracle, as we have to take extra pairs in washing udders and rinsing the machines, but even with it all, a man with two units will milk 20 cows an hour, and that much eacler than he would milk 10 by hand. As for sickness or udder troubles, I do not know what it is, outside of the usual troubles at calving time, or when a cow gets a teat stepped on and badly cut; but contagious garget, etc., I have never had since using this machine, for the obvious reason, I think that there is absolute release from suction on the teat between each pulsation.

As to whether my cows like the machine or not; well, they have never said anything to the contrary; they are contented and happy, and give fully as much milk as ever. I can assure you thet their owner would not part with his B-L-K for a lot.

Milker Now Essential Two Years Successful Experience

W. E. THOMPSON, Oxford Co., Ont.

THAVE been using a Hinman milking machine for nearly two years with very satisfactory

results. When we installed this machine we were milking 12 cows. The conditions on which this machine was installed were 60 days' free trial, when, if satisfactory to me, I was to pay \$170 for the three units and the stable fixtures. it required only one man and myself one day co zistal this machine ready tor operation. having a in shape to do the milking at six o'clock. As my angine was in the dairy we had to use a belt from the time shaft to a spur shaft with a nevel gear on it connecting with the shaft on which was the crank that drove the pump rod. we found we had not sufficient power to drive the third unit, as my engine was only 1% norse power. Had the engine peep connected direct to the crank shaft no doubt we would have had no trouble, but as we did not wish to shift our engine t then traded it off for s three horse power engine which gives us plenty of power and very sittle trouble. With this engine the rools are cut, the milk separated, and the milking done, all three operations going on at the same time, using about six gallons of gasoline per month.

in starting our machine we had Nos. 3 and 4 teat cups which we found too small for my cows. as they made the ends of some of the cow's teats red. We then exchanged them for No. p cups, and found them very satisfactory; indeed, naving ao trouble with them pinching the cow's ceats or talling off. Here is where a man needs to use good judgment with his machine to have the eat cups right size and to run his pump shaft not more than 44 or 45 strokes per minute: if it is zup faster you have not sufficient release between strokes, and the result is your machine will not milk so fast, and is liable to injure the udder.

Cleaning the Machine.

We keep the rubber rubes and teat cups in a selution of chloride of lime and water supplied us by the City Dairy Co., where our cream is taken during the winter months. Before starting to

DIDNE CHENT THATEV HARM AND DAIRY.

mannes as ordinar; milk tave ovar aw aling had any complaint as to the flavor of our milk or cream. due to our milking machine. and the milk is very much cleanor than it is possible to onve it by nand milking. We have always made

a practice of strippins. as some cowa do not milk right clean at all times. while others never require to be stripped. some one may ask. How do the cows take to machine milking? I shall answer this by saying. The same as hand milkmg, but they prefer the machine when they get used to it: also, it is much easier to teach a neifer that has never peen milked.

My machine has never cost me one cent during the time I have had it.

as the mouth-piece rubbers seem to be the only parts which give out and there were a rew extra Dieces that came with the machine.

lime and Labor Saved.

One man who is accustomed to operate this machine can milk from 20 to 25 cows per hour in June or July when cows are in full milk, and the weather hot, and not feel he is burdened with

work or peat. in winter cows do not milk so fast, and it will require a little more time. One test made by some visitors, my man operating the machine. resulted in him milking . 13 cows in 35 minutes from time of starting the machine until it was stopped. This cest, was made in September, and the man did not know ne was being timed. it is so simple to operate that it only requires a tew days to teach a new man now to operate it. Yet it must be borne in mind that it is only a machine, and to get good results the operator must supply the orains as there is more to do than simply change che pail from one cow to another; the details can be tound only or

Having no man, 1

hao to operate the machine myself for the arst tour months. Then

I secured a man who had previously worked in a factory. After a rew days' showing he took full charge of the milking, ne being with me for eight months, after which a new man took his place and likewise took full charge. During these 22 months we have only milked twice oy hand, both occastons not being able to use our engine, and ao rault of the milking machine.

As for sore tests and injured quarters, which we hear so much about, a am pleased to say we DAVE never Dad a sore cent of a oad quarter que to the machine since we installed it. Daving only one chree-tested cow on the place, she della made thus by an accident. Inere are a goodiy sumber



This Herd Prefers to be Milked Mechanically

The proprietors. I hompson Bros., of vaudreuii Co., Que., write sharm and Dairy that cows that sicked over many a gallon or milk when milked by hand stars mietly while the machine does its work.

or milking machines in use in this section of the country, and they seem to be giving entire tatisactory results and most of them doing the milking for men who have pure-bred Holsteins. there .s one redeeming reature about the milking machine: the dairyman who has one finds it tester to secure nelp, as it is not necessary to have a good milker.

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in conclusion, I would say, if you have plents of help to do the milking there can be no advanage in installing a milker, but it on the other hand you. like myself, have to depend on nired help to do the milking, I teet sate in saying the machine will do the work at a much smaller cost and quite as efficiently as the average man, and besides it is always ready and at nome at milk ing time.

The question is often asked. Do you think inc cows give as much milk as when milked by hand: I can see no reason why they should not it inwork is rightly done and the cows carefully stripped.

For A Classy Trade His Machine Produces Certified Milk

R. R. NESS, Chateauguay Co., Que.

is are pleased to be allowed an opportunity through Farm and Dairy to give to our

gard and steadily worked fellow-dairy men, the pleasing and relieving experiences we are naving with our Omega milking machine The miking machine question has been one o the hings that we have seen investigating for tos past ave of six years with a view to tessening and making our work easier. At every opportunity we oiscussed and watchee their work on triats at exhibitions. From information gathered and our own observations we decided that some or the machines effered were quite satisfactory.

At ast the Omega was presented. We were in duced to try it, and had it installed the first week of July, 1915-just in time to help do our naying. It has given entire satisfaction in all respects thus tar, and we tall to see anything in the oper ation of it that leaves any doubt on our minds as to its being an altogether satisfactory milking machine. Our cows have all taken readily of it; they seem to preter at to sand milking.

No Decrease in Milk Flow.

As to their giving the same quantity as ov nane we cannot see any difference as yet. some at all cows are doing much ootter this year with (Coheludeo an page 19.)



Agricultural Colleges and Experimental Stations are now Milking by Ma. chinery. This illustration was secured at the Nova Scotia Agricultural College.

wilk the tubes and cups are well rinsed wit! uke warm water, then put together and the milkng operation started. It requires only one man to look after the three units and empty the milk nto pails or cans in the dairy where the cream separator is located. When the milking is over. uke warm water is again drawn through the cups and tubes to take away any milk which might be odged therein. This is done by dropping the ups into a pail of water and pulling the pump ucker rod four of five times. This done they are zain placed in the orine and covered up in order C Keep away ught and air which is very injurious & "uohei goods fine balls and covers which are nor seavy of complicates are wasnes in the same



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April 6, 1916.

From Hired Man To Farm Owner "via" The Dairy Cow

Au Inspiring Story of Perseverance and Success in Dundas County, Ont.-By F. E. Ellis

A MONG the many prosperous and successful farme - in the great dairy county of Dun-

das, Ont, no one deserves more credit for his accomplishments as a dairyman, than does Wm. Balley, the second largest milk shipper of the Chesterville district. It is hard to believe when one is acquainted with the farm of which to-day Mr. Bailey is the proprietor that just 22 years ago he was working as hired man on that self-same farm. Yet such is the case. Mr. Bailey has travelled to farm ownership over a road known to many others of our best dairy farmers of to-day-through the successive stages of hired man, tenant farmer and finally, farm owner. This road is often rough and hard, and many there are who get discouraged on the way and leave the farm for some other avocation. It is a road, however, that many of us will have to travel if we are ever to enjoy the independence that goes with the ownership of a good farm. And it was as an encouragement to all who must start as he did that induced Mr. Pailey to tell me his story. It is for the same reason that the tale of this Dundas farmer is here related in Farm and Dairy -that other young men may see the possibilities and the reward of perseverance and energy plied to dairy farming.

I first became acquainted with Mr. Bailey on a pleasant day last June. I had spent the day before around Chesterville, and found that everyone spoke well of Wm. Bailey. I was advised to visit his farm. Just as I arrived at the gate, Mr. Balley drove out with eleven 80-lb cans of milk on his rig. He was on his way to catch the milk train for Montreal; and milk trains don't wait on dairy farmers even though dairy farmers often have to wait on them. Mr. Bailey went on to the station, three and one-half miles away, and I took advantage of the opportunity to look over his farm and a couple of farms in the neighborhood as well. The Bailey farm is of the rich clay loam, characteristic of the district; soil ideal for the growth of clover, small grains and corn. The fields are level and easily worked. In short, it is such a farm and such a soil as requires careful handling, but yields maximum returns when managed well. It is part of the old Carlyle homestead, at one time one of the biggest farms in the county, but now divided into three farms, of which Mr. Bailey owns the 125 acres on which are the central buildings of the original farm. That is, 125 acres, more or less; a careful measurement would probably be nearer 150 acres.

Mr. Bailey treats his soil very much as he does his bank account-he is careful to put more into

it than he takes out. A systematic rotation is followed of corn. oata seeded to clover, and hay one or two years. Very seldom is the sod allowed to remain down more than two years. In addition to feeding on the farm all that is grown on the farm, and to the fertility added to the soil through clover, quantities of concentrates are bought each year to feed to the dairy herd, and indirectly these purchased feeding stuffs feed the soil. Thus is Mr. Bailey preparing for permanent

prosperity that comes by way of a fertile soil. The buildings stand well back from the road. The big red barns and the brick house are surrounded by trees, making a very attractive home stead. The main barn, in which are housed 32 cows and a quantity of young stock, is 113 feet. long and 56 feet wide. The horse barn nearby is 70 feet by 32 fect. Two silos stand out prominently by the dairy building. One of these, 14 by 24 feet, was on the farm when Mr. Balley purchased it. The newer silo, 20 by 24 feet, was erected a year ago. Mr. Bailey is in dairying more extensively than was Mr. Carlyle," and as grows 25 acres of corn each year, lots of silo capacity is needed. Silage is fed all winter, and to some extent through the summer as well. The foods purchased to go along with the corn silage, clover hay, and chopped oats grown on the farm are gluten feed, with small quantities of cotton seed and oil cake. Straight oats are preferred to mixed grain, barley being objected to on the ground that it seems to "heat up the cow."

Mr. Balley's Story.

In the meantime, Mr. Bailey had gotten back from town and started me out on a personally conducted tou: of the premises. As we leaned against the pasture fence inspectig the dairy herd, Mr. Bailey told me something of his upward climb on the dairy ladder. He is an unassuming man, and told his story in an unassuming way. Had it not been for the additional details learned in the neighborhood, I might not have realized just what a worth-while success Mr. Bailey had achieved.

The combined milk and ice house is well equipped for city milk shipping.

We all knew of men born and bred in the country, given a training which fits them to be successful only in the country, but are not given farms on which to apply that training. This was the class in which Mr. Bailey found himself when he must needs leave the parental roof. He had the desire to farm, but not the farm. Accordingly he hired out with Mr. Carlyle at a small sum per month, and worked with him for three years. During that three years he did a lot of the hard work incidental to making the Carlyle farm one of the best in the neighborhood. He did not spend his money on a fancy driving outfit, and to such good purpose did he work and save that at the end of his three year period he quit, got married, and rented a 50-acre farm. He started right into dairying. The nucleus of his herd was five Ayrshire grade cows, which he purchased for \$20 each from his previous employer. "They were a little old," commented Mr. Bailey, "but they were all I could afford, and I thought they would do until I bred some." His wife brought him two cows and soon the number was increased to ten.

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Milk and Pork the Speciaities.

Dairying and pork were the specialties on that 50-acre farm. The milk went to the cheese factory at a low price. Pork sold as low as four cents a pound. But if prices were then low, the cost of living was low in proportion, and at the end of two years a 150-acre farm was rented near Morewood in the same county. Here Mr. Bailey,

(Concluded on page 29.)



Herds such as this one, pleasing to look upon and profitable to milk, have raised the mortgage from many a farm.



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A Catch of Clover Every Year

An Outline of the Cardinal Features of Clover Culture

CIMCOE COUNTY produces more clover seed than any other county is the Province of Ontario. Simcoe county farmers have been studying the clover crop for a great number of years and passing their knowledge along. A few of them go about each winter at Institute meetings, giving to others the benefit of the lessons they have learned through dearly bought experience. Of these, none are more appreciated than Mr. Henry Grose, of Lefroy. Mr. Grose was recently in Peterborough county speaking, and after one of his meetings, one of his audience remarked to him, "I have been wondering for some years why I couldn't get a decent catch of clover, have heard several speakers on the subject, but you are the first one who ever went to the root of the matter. I know now that I have been burying it." Others were heard expressing themselves in appreciation of the very practical talk given by Mr. Grose. We are encouraged to believe, therefore, that a somewhat extended review of his address may prove of interest to Farm and Dairy readers. Mr. Grose has a style all his own, and we will not attempt to tell the story as he told it.

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Mr. Gross, first emphasized the importance of using enough good seed. He recommended 16 lbs. of pure clover seed to the arce, and then it would not be a bit too thick, either for hay or for seed. When it came to methods of sowing the seed, he advised all his hearers to go home, take an axe and knock the clover seed attachment off the back of their drills. These attachments, he believes, are directly responsible for many failures to get a catch. He then told of the way that he would sow the seed.

Don't Bury the Seed.

"You never had any trouble getting a catch of clover when you brushed the seed in, did you?" he asked his audience. They agreed that they "You never had any trouble to get a had not. catch when you scattered the clover seed on the early snow?" Again they agreed. "I'll tell you why," Mr. Grose fired back. "Then the seed was covered very shallow, if at all. Now you bury it. My way is to roll the land after the grain crop has gone in and then scatter the clover seed with a small hand cyclone seeder. This seeder will throw the seed over a strip 16 feet wide, and a man can cover a good many acres in a day. Then I harrow with the lightest harrow on the farm. I don't believe that clover seed should be buried over one-half inch."

"Dou you pasture your young clover" he next asked. A few farmers admitted that they did. Mr. Grose then explained the formation of the clover plant, how that the leaves and stems start from the crown of the plant, which is above the soil. When the young clover is pastured in the fall, the cattle nip off this crown and kill the plant. The tricher the land, the higher the crown and the greater the damage done. "If you want clover you can't have pasture, too," was the way Mr. Grose summed up the situation.

He advised against allowing the clover to blossom the first year. In a favorable fall the clover will do this, and there will be no clover the next year, as the plant has then completed its life cycle. "Take the swather bar of the mower," he directed, "raise the cutter bar well above the crown and run over the field. Leave the clover tops right on the land. They will protect the crowns through the winter, and will add as much fertility to the soil as a nice dreasing of manure."

Growing Clean Clover Seed.

Then the consideration of clean seed came up for discussion. "I am convinced that if you want clean seed you must spud your fields," said Mr. Grose. "There are too many weed seeds of the same size and weight as the clover to allow of it. being cleaned theroughly by screening. Go over the field twice at least and remove all weeds.

"Clover won't grow with wet feet," remarked the speaker later, "Tile your farms for clove". Nothing will pay better."

The clover midge has long been known as one of the worst enemies of the clover seed producer. The pioneers in the business found that by pasturing their clover fields early in the season and then running the mower over it and taking a late crop for seed, the depredations of the midge were avoided. This is because the midge lays its eggs in the first blossom. The larvae crawl down to the root, and then come up again and attack the second or seed bloom. Growers to-day, however, wish to have both a crop of hay and a crop of seed. and Mr. Grose advocated cutting the first crop for hay just as soon as it starts to bloom. The digestible nutrients per acre in the crop cut at that time will be practically as great as if the crop were cut later when the clover has reached full bloom, and at the same time the operations of the clover midge are as effectually prevented as they were under the older pasturing system.

"Let the clover stand for seed until it is dead rips," directed Mr. Grose. "Then cut when the dew is on. If you haven't finished cutting when the dew risses, stop for the day. Rake the clover when the dew is on and do not rake across the swaths, but with them, and rake the same way as you cut. These are small points, but they make the difference between profit and loss in clover seed production. Cutting and raking at any other time or in any other way, too large a proportion of the heads full b lost."

Many other points were emphasized by Mr. Grose, but these are the principal ones.

Soil or Pasture?*

This Experiment Favors Pasture

E. S. LEITCH, O.A.C., Guelph, Ont. THE problem that many farmers are endeavoring to solve is the proper relationship be-

tween number of acres and number of cows. Generally I would say that it does not pay to put a large herd of cows on a farm too small to afford pasturage for them. Our results at the Ontario Agricultural College go to show that as cheap milk cannot be produced in the stable in summer as can be produced on rasture. At Guelph we pastured 32 cows, which produced in four monflis 81,650 lbs. of milk at a cost of \$368.28. This figures out to a production cost of 46 cents a cwt. of milk, and 11 cents a pound butter fat. In the stable we fed 15 mature cows. They were better individuals than the cows on pasture. In the same four months they produced 56,290 lbs. of milk at a cost of \$426.21, which figures out to 86 cents a cwt. of milk and 22 cents a pound butter fat, or very nearly double the cost of milk produced on pasture.

One of the causes of high costing milk in the summer may be too much poor pasture. The natural grasses in Ontario do not produce pasture for the cows for more than one-half of the summer, and there is no part of the farm where manure and sced can be more profitably expended than in the production of an annual pasture crop. The seeding mixture that I would recommend for this purpose is one bushel of paring wheat, one bushel of oats, one bushel of baring wheat, one source mounds of red clover. One acre of this annual pasture will produce more feed than three April 6, 1916.

acres of natural grass pasture. An experiment conducted at Guelph last summer illustrates this fully,

In one field we had 28 acres of arable land, four acres in natural grass pasture, and four acres in rough land and woods. The mixture mentioned was sown on April 30, with an addition of two and one-half pounds Canadian blue grass; two and one-half pounds orchard grass and two and onehalf pounds meadow fescue, these grasses being added to provide pasture for the next year. On June 8 we turned into this field 14 mature beef cows, six beef heifers one to two years old, 17 dairy heifers one to two and one-half years old. four dry dairy cows and 22 milking dairy cows. Altogether we pastured on the field 75 head of cattle from June 8 to August -21. Then the 32 cows were taken off to second growth clover, and on September 8th the 14 beef cows were removed. There was no time during the season when that

There was not not barrier of the season when this parture could not have carried more cattle. I will admit that last season, with its extreme humidity, was unusually favorable to nuch an experiment as this. The only supplementary feeding was to some cows running in Record of Performance. In an ordinary season the results might not be as good, but in any season they would more than justify this method of feeding. Natural grass pasture requires two acress to an animal, or \$5 a cow, rent or interest on moderately priced land. Then there would be another \$5 for the supplementary feeding necessary, or \$10 a cow. Our pasture carried 76 head at a total cost of \$565, or \$7.50 a cow.

Results from Cow Testing

The Dividends are Substantial

S. J. GOODLIFFE, Kings Co., N.B.

CONSIDER keeping a record of the amount of milk given by each cow daily, to be very

Interesting work. It gets at the root of the question as to how a farmer can make his business more profilable. I commenced weighing the milk from each cow several years ago, and it took a sesson to get all hands into a requires habit of doins this. Consequently, my record for the first year was incomplete. The habit was soon ac quired, however, and no one would think of not weighing his pail of milk before commencing the next cow.

My method of keeping this record was very simple. I ruled a sheet of paper and attached it to a board, changing it every Sunday. I entered the weekly totals in a book kept especially for the purpose.

The longer one keeps weeding out his poor cows the harder it becomes to pick out by guess work the one that gives the least milk, because they all grow to be good ones, and there is very little difference between the ones at the bottom of the list and those that are higher up. Then, again, a cow that gives a big flow of milk for a short season is usually the one that has the good opinion of those working around the herd, while the cow that gives her steady 200 to 255 lbs. a week all the year round, has not nearly the splendid reputation of her more spectacular producing sister. It is really the steady producer, however, that comes out on top. If a man does not keep a record of what each cow gives, he is likely to sell the steady producer in preference to the spectacular cow.

In regard to the increased production wrought in my herd oy the practice of weeding out ammaally, according to amount of production, I will take the year after I started testing and compare it with six years later. In the first year the average per cow was 4,850 lbs, and six years later this had increased to 7,835 lbs. I have demonstrated to my own satisfaction that no time speat in working with the dairy herd is so profitable as that speat weighing the milk yields.

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having and a States upon Canad chillze Avrshi dairy the W tional portan r reside therefo a num torial distinc He is t tural C me to thing c Ballant tyne h farm. a farme fills su The

miles fr The dis most fe of good are 200 perman land. 7 in place it as no a live i Ballanty

Choice

^{*}A synopsis of part of an address delivered by Mr. Leitch at the recent Otkawa Winker Fair. Mr. Leitch is locturer in farm management at Gueiph, and also the manager of the college farm.

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FARM AND DAIRY.

W. W. Ballantyne As A Farmer

A Visit to the Home of This Noted Breeder and Judge of Ayrshire Cattle

W. Ballantyne, of Stratford, Ont., is a farmer of parts. As a judge of dairy . cattle, he has a continental reputation, having officiated at the leading fairs of Canada, and at many of the greatest fairs in the United States. When in Canada he is apt to be called upon to judge any dairy breed; even French-Canadians. When in the United States, he specializes on the judging of his favorite breed, the Ayrshire. Mr. Ballantyne also represents the dairy interests of his province on the Boards of the Winter Fair at Guelph and the Canadian National Exhibitica at Toronto. Not the least important of his many connections with the dairy industry is the fact that Mr. Ballantyne is the resident of The Rural Publishing Company, and, therefore, as a practical farmer, associated with a number of others, he helps to frame the editorial policies of Farm and Dairy. He has one distinction, which can never be taken from him. He is the first graduate from the Ontario Agricultural College to have a son graduate. This brings me to the real object of this sketch, to tell something of the farm that is now being run by Mr. Ballantyne and his son Norman, for Mr. Ballantype has succeeded in keeping his son on the form. After all, it is Mr. Ballantyne's success as a farmer and breed. c, that has led to his appointment to the several official positions that he now fills successfully.

The Ballantyme farm is situated a couple of miles from Stratford in the county of Perth, Ont. The district in which it is suitated is one of the most fertile farming communities of Ontario, one of good farms and of properous farmers. There are 200 acres in this farm, 40 to 50 in bush and permanent pasture, and 150 acres of workable land. The farm is rolling and tends to be stony in places, but anyone who knows would brand it as naturally a "right good farm." It has been a live stock farm during the 30 years that Mr. Ballastype base managed it, and live stock, combind with a systematic rotation of crops, have resulted in continually increasing production. The hoc crops is followed by grain, seeded down. Two crops of hay are taken, then one year of either pasture or wheat. The 14 acres of a falfala, one of the most valued crops grown, although according to Norman it is "awfal to plow." is not in the rotation: The hoc crop consists of 12 meres of corm, sometimes more, two and one-half acres of mangels and one acre of turnings.

Silage Fed 21 Years.

air. Ballantyne is always ready to say a good word for corn casilage; the silo he regards as a necessary adjunct to the profitable dairy farm. In endorsing the silo en the tarm, a rectangular concrete silo can the farm, a rectangular concrete situcture, 16 x 12 feet and 28 feet high, has already housed 21 crops, and was the first silo built in that district, and at a time when they were almost a curiosity in the Province. This square allo has given good satisfaction, although the wastage is a little greater than in the round type. Another silo, 12 by 28 feet, has been added right across the drive floor. Both silos are inside the barn. This latter is a circular stave structure, and is usually kept for summer feeding.

When I visited the Ballantyne farm last apring the Ayrshire stock was low, just about 40 head with 12 milling. There was, however, a long line of twoyear-old befers which would soon bring the milling heaf up to normal strength. These twoyear-olds exemplified the type that Mr. Ballantyneconsiders ideal for the Ayrshire breed. They were big, well constituted animals, due to freshen at 30 morths of gag. I might add, that it is to this policy of deferred breeding of helfers that Mr. Ballantyne attributes in no small measure the extra good size of his cattle.

Milk Records=Long Kept.

The herd was established in 1893, and since then the policy has been to breed Ayrshires, not deal in them. Individual milk records were kept



Choice Ayrshires in the Canadian Home of the Breed-Chateaguay Co., Que. A Portion of the Herd of Mr. John Logan.



W. W. Ballantyne, the Senior Member of the Eirm.

for many years before the Record of Performance was instituted in Canada. They were considered necessary to intelligent herd improvement. The foundation stock was largely of the Auchenbrain strain, imported direct from Scotland. That the selection was a wise one is proved by the fact that more notable Record of Performance cows are from sires hred on the Ballantyne farm than from stock of any other farm in Canada. Such notable producers as Annie Laurie, Primrose of Tanglewyld and Briery of Springbank, have near relatives in the Ballantyne herd. At the present time, all of the females are run in the R. O. P. test, and if they don't qualify in the first lactation period, they are given another chance. If they do not then qualify, they leave the herd, most of the culls going to the butcher.

"We have made no big records in our herd." remarked Mr. Ballantyne, Jr. "We don't feed for them. We leed for good, satiafactory records that will be repeated year after year, and we want their daughters to be as good producers or better. We don't know of many great record cows with daughters of their own calibre. Our ideal is bigh. uniform production."

The present herd sire is a son of Briery of Springbank, one of the most notable cows of the breed, and his sire is Lessnessock Forest King. In selecting this sire, the Ballantynes are really propagating their old original stock.

Feeding Methode.

"How do you feed?" I asked Mr. Norman Ballantyne.

"Father does the feeding here, but I can tell you the general plan followed. We sim to feed principally what we grow on the place: The concentrates purchased are largely bran and cottontion of the second al; then we milk and have breaktast.

that we feed roots whole, and when been cleaned up, the cows get hay. At as an afternoon we again feed ensilage and mean milk, give a feed of hay, and the stable work is then done for the day."

Right off the cow stable, but effectually separated from it, is the pig pen, where the by-product of the dairy are turned to profitable account. (Concluded on page 11.)

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BEFORE the **Primrose** came, cream separa-tors were machines of many gears and bearings, requiring all sorts of adjustments all the time.

ings, requiring all sorts of adjustments all the time. If you ever owned one, you know what that means. If you ever owned one, you know what that you never the state of the same of the same of the same you ever even, but could thelp it, and you found even a wastell sepa-rator much better than hand skinming. — All these adjustments are now done away with. The Primzee is, in truth, a 'one-adjustment' machine. There is only one place where wear affects the work of the Primzees, and that is on he hardreade ster' point that carries the weight of the whint he hardread ster' point that carries the weight of the whint he hardread ster' point that carries the weight of the whint he hardread ster' point that carries the weight of the whint he hardread ster' point that carries the weight of the whint he hardread ster' point the carries the weight of the same here the output the same shat the adjusting will not take mach of your time. — And since him here any write us at the nearest branch vorsing condition all the time, or, write us at the nearest branch to use for complete information. If your going to buy a sepa-tor, you'll never regret the time you spend studying the Primzee,

International Harvester Company of Canada, Ltd.

SYDNEY BASIC

SLAG

BRANCH HOUSES At Branden, Calpury, Edmanton, Latven, Hemilton, Lethkridge, London, Me R. Battleford, Ottawa, Quebec, Regian, Saskateen, St. John, Winniper, N

THE two elements lacking to the greatest extent in Ontario soils are Phosphoric Acid and Lime. Most heavy soils already contain potash in abundance, and farmers need not buy expensive nitrogen when they can secure all they want by the growth of clover. The cheapest and most effective method of applying Phosphoric Acid and Lime to the land is by the use of Sydney Basic Slag. Our make for this season is all sold, but if you want to know the merits of this fertilizer send us your name and address and our general Sales-agent will call and have a talk with you. Perhaps you could place a carload for next fall and benefit your community?

THE CROSS FERTILIZER CO., Ltd.

Sydney, Nova Scotia

The Dairy Situation Reviewed

By W. A. MacKay, Prov. Dairy Superintendent.

I T is more difficult at this time to predict what the prospects are for darrying than perhaps at any for mer time, due targoly to the fact that out of our 20 vreameries, 13 men inve enlisted for overseas service, and it is hard to compute what effect the large number who have enlisted from the

number who have enlisted from the farms in the province is going to have on the production end. Outside of this fact, the evidences are for a considerable increase la the amount of creamer butter and some increase in the dairy butter and some isblv a decrease in factory cheese.

A splendid demand conditues for breeding stock of a higher quality and a determined effort is apparent all over the province for higher milk production. The work of the Cow Teating Amendaltions and Beach for production. The work of the Cow Testing Associations and Record Con-tres is showing tangible results. In our Record Centres, where full yearly records are available, for the past two years on 216 cows, an increase is noted of \$9.38 per cow in 1915 over 1914, and similar results to a greater 1914, and similar results to a greater

or less extent all over the province. The creameries are in better condi-tion than ever before. The output of ton that ever before. The output of 1916 showing an increase of 34 per cent, over 1914 and we might, I think, safely predict a still greater increase in 1916. The registration of oreamer-ies and cheese factories, which took les and cheese lactories, which took effect last year, has had an apparent effect in better kept creameries, more sanitary, and many improvements made that otherwise would not have been made, and consequently a heart-

been made, and consequently a heart-ier cooperation and more confidence on the part of the producer. An effort is being made at present to have cream anding adopted in all the creameries during the coming season. Firstly have already significa-their insertial of sating with two the inset of the season of the season time, at we cents are point on grade ium of two cents per pound on grade 1, over grade 2. This appears to be a practical assistance in the solution of the quality problem. To sum up, the forecasts are: Bet-

ter kept creameries, a heartler co-operation between patron and creamoperation between pairon and cream-ery man, and an increased output. The one great drawback is the high cost of production, due to the amount of feed that has to be imported.

Western Ontario Will Increase Frank Herns, Chief Dairy Instructor for Western Ontario.

HERE is preparation for an in-creased output of cheese in Western Ontario this coming season and the high price of butter is also stimulating that part of the industry.

Several additional creameries and cheese factories will be opened. Several cheese factories have been bought by the milk condensers and milk powder factories. A number of cheese factories and creameries continued operations during the winter and there is a general increase in winter dairy ing.

we the first of January the inactors and the writer have attended about 80 annual meetings of cheese factories and creameries. The attendance at nearly all these meetings was large and the patrons were optimis-tic regarding the future of the cheese and butter industry. The prices re-ceived in 1916 were the highest ever realized in Canada and producers are anticipating good prices for the coming season

Owing to the increased cost of dairy upplies including rennet and color, ome of the manufacturers have been

Dairy Conditions in Nova Scotia obliged to raise slightly the price for

obliged to raise slightly the price for manufacturing cheese. Greater attention is being given to cow testing and a wider interest in supplying good quality of milk and cream to the factories.

There is every probability of a shortage of farm and factory help this year. I have received several reports year. I have received several reports from different sections and every one mentions the quicklon of lack of farm help, wating that some farmers in the commanity are selling their dairy tows on account of being unable to secure sufficient help. Three cows cows on account of being unable to secure sufficient help. These cows are, however, being transferred to other farmers who are probably in more fortunate circumstances in so far as help is concerned, and there-fore should not be lost to production. A number of farmers in the dairy sec-A number of farmers in the dary sec-tions are arranging to put in mili-ing machines to try and deal with the help problem. On the whole, how-ever, as conditions now appear there should be a prosperous so of the dairymen.

From Eastern Ontario

G. G. Publow, Chief Da'ry Instructor for Eastern Ontario.

DROBABLY dairymen have never had such favorable conditions sur

I rounding the approach of a manufacturing season as those prevailmanufacturing season as those prevai-ing at the presst. time. Dairy pro-ducts at any time, when of good quai-ity, are always staple products and profitable commodities to produce. But seldom, if ever, in the history of Canadian dairying has the demand reached such proportions accompan-ied by such extraordinary prices. ied by such extraordinary prices. Therefore it seems most fitting that all those connected with this parti-cular braneth of agriculture should start the year with a clear under-standing of the needs of the industry and the opportunities awaiting the individual to secure for himself, and his countrymen at large the most buonofiel results. eneficial results.

It is already at this date none too early for producers and manufactur-ers to make a 'careful inspection of ers to make a careful inspection of their buildings and equipments with the idea of placing them in a suitable condition for obtaining the best re-sults. The Dairy Act of Canada states specifically that all places surrounding the production and manufacture of dairy products must be maintained in a clean, sanitary state, and it is the intention of those in charge of the in-spection of these places to see that the regulations are complied with even more fully than ever, because all have now had sufficient time to make nec-

essary preparations or alterations. Let us first refer to the work of the producer of milk at the farm, aná producer of milk at the farm, and without going into a long discussion of details we can touch at the most vital part by simply repeating what we have said in varying ways before, namely, that the farmer controls in almost every conceivable way both the quality and quantity of the manu-factured products, by the manuer and condition in which he produces the solution every the manuer and let us reraw material, which in this business is clean sweet milk. And let us re-peat also, for it is not yet too late, for all dairymen to provide themselves with a supply of los for cooling the milk immediately after its being ob-tained from the cows. Dairymen cun do no better work or spend time to better advantage than in the proper cooling of milk and cream, to preserve its purity until it reactes the factory or creamery.

Factorymen, too, must in justice to themselves and their patrons, as well as in compliance with the laws of sanitation, put their places of manu-facture in suitable shape for the as-surance of cleanliness and efficiency

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duc is, and this should be done armi-cleasi, early because if set until after the manufacturing actually begins the manager usually finds himself too be writh the daily routine of work? to be the set of the set of the set of the orderion of the oper structure of the idea of securing the highest of apring prices, and these, no doubt, will be comfronted with the usual temptation to send their goods to market before they are sufficiently propared for the consumer; the old story of green chases, one of the greatest errors re-seling from the hack of terchrought on the part of the mean who suffer most from the practice how the most decimental of a doubte in our cary detrimental of all deflects in our early decimental of a devetots in our early apring proceedings. Let us much rather keep in mind that it is the actual consumer who decides the da-mand and therefore, prices for our products and it is he whom we must satisfy

The Saskatchewan Situation

W. A. Wilson, Dairy Commissioner.

HAVE no reason to believe there will be much change in the de-velopment in Saskatchewan. Our farmers have not shown any evidence of going beyond their depth in so far of going beyond their depth in so far as dairying is concerned and for the past eight years very steady and sub-stantial progress has been recorded. In that time other inducements have intervened but our dairymen, thanks to the steady market which we have, with their assistance, succeeded in de-with their assistance, succeeded in dewith their assistance, succeeded in de-veloping, have given evidence that they will continue a safe and same line of progress. Last year the campaign for greater wheat production indicated some inkerference with the production of dary product. This year there is a possibility that the enormous grain. Yeid of 1915, associated with size ylett of 1310, associated with war prices, will reflect in favor of grain production, but inasmuch as the in-crease in production of creasmery but-ter in 1915 exceeded all prior records, ter in 1915 exceeded all prior records, and that a rather remarkable increase has taken place every year for the past eight years, it leads are to con-clude that Jairy farmers are not to be champeded and that the end of 1916 will be quite satisfactory.

will be quide satisfactory. The market conditions are all that can be desired, especially for the best quality of builter. We look for an im-provement in the quality as a result provement in the quality as a result provide the second of the second second that has been charding arguing characteristic tourising of cream for builtermaking purposes will constitute the outstand-ing advance step in Saskatchevance purposes will constitute the outstand-ing advance step in Sawkatchwanp's creanney policy this year. Ninety per-sent, of the creatmeries that have not been equipped for this work are now actually installing plants and an effort will be made to have the butter from the Province of Saskatchwarn equal-to the best offered to the trade.

Alberta Output Will Increase C. MARKER, Dairy Commissioner for Alberta

Athera. T HEE outlook for takes year's dairy judgment, very encount attistatory marketing of outload products in 1918, and the abundance of feed production in all sections of the country will estimate the abundance to groader production. During the past three years the creanery butter production has been furnessating at the rate of practically 86 per cent annually, and 1 expect to see a semiair increase, at least in the butter output, of the 60 odd creaneries that will be oparating in the province that will be operating in the province in 1916.

1 also look for a generous increase directly interested in in the cheese production of a few fac of the dairy industry.

tories in thickey settled districts and, especially in some of our large city daries. Owing to the higher cheese

city daries. Contag to Leshighter cheese priores issues and the state of the state were able to maked on these a fait-during the summer minks supplies during the summer minks supplies to the summer markets has given the dairyman on the farm, as well as the batter and cheese maker in the fac-tory a real incentive to do his best in the production of more and better

tory a real incendro to do his best in the production of more and better dairy products. Otress stable and satisfactory mar-kets for his troducts, she dairyman, will feel that he can safely attend his business along more permanent lines. He will be glad to avail him-self of the service of various public agencies shat are now at work to, pro-mote more economical production, and years produciable marketime. This mote more economical functions. This point has been practically reached

Dairying in British Columbia A. F. Wiancko, Provincial Dairy Instructor for British Columbia.

HE area of land devoted to dairy-ing in British Columbia is not

Ing in Britlah Columbia is not grad, but is capable of support-ing many times the number of dairy exitle that it does at the present. "The developed lands of the E & N. Railway belt on Vancouver Island and those of the Lower Mainland const-tute, with certain of the Gulf Islands, the main drive maticary of the Bare. the main dairy sections of the Prov-

To a more limited extent dairying is To a more limited extent dairying is a also successfully carried on at Sal-mon Arm, Armstrong, Kelowna, and Grand Forks. Around several of the cities of the interior, Kamboops, Revel-stoke, Nelson, Rossiand, Cranbrook and Fernie, sufficient cows are kept for eite milk ruproace. -. for city milk purposes.

In the newer parts opened up by the Grand Trunk Pacific and Pacific Great Eastern Railways there are immense areas where dairying may in time be

anisotrophysical and the second secon 12

The growing of fodder crops, corn, roots, clover and alfalfa, has been made the subject of special enquiry by the Department of Agriculture. Plots to test the value of certain green Plots to test the value of certain green fodders have been started in a num-her of different districts, in others five-acre tracts have been selected to do monstrate principles of tillage and crop rotation, as well as the adaptabillty of crops to the different districts

The building of silos for the storage of corn and other fodders in an eco-nomical and palatable form has also from encouraged, and a large number of these have been built during the

of these have been built during the past year. Outside the town and city milk, cream and loc cream trade, which is very considerable in itself, dairying the the Province takes the form mainly the takes are also be present into 24 cream arises in successful op-eration, for of which have been as-tablished and the base been as-tablished takes are owned by co-operative absent means the share-bolders being mainlyms. The share-bolders being mainlyms, the share-bolders being mainlyms, the development of the dairy industry.

FARM AND DAIRY. **HERE AREAS**

"Good News for Farm Women

Dear Mrs. Dairywoman:---

Orange, N. J., March 1, 1916

The bearer of good news is always welcome; and I have some very cod news for farm women. We've a new separator at our house and

One splendid feature of this new invention which must have been planned with the confort of the dairy woman in mind is the knee-high supply can. This does away with the hard, high lift no woman should be asked to endure day after day. It's only a few inches to lift and still of the pall, even for a amail boy. This is one item of good news.

of the pair, even for a simult poy. It has to one them of good news. Cleanliness is the beginning, middle, and end of good dairy work. You know how quickly the separator thows the effect of any slight letting up in this direction. With dishes to wash three times a day, cooking up in this direction. With dishes to wash three times a day, is just about the "hast araw", isn't if But with our new Sharplen there are only three picces to clean, not one heavy, bulky, or fasay. This is the second piece of good news.

Formerly, a slight slowing of speed in turning the handle of this separator meant a loss of cream-and money. One's attention had to be sticly on turning the crank at an unvaying high speed, which was trying to both mind and strength. My third and best ploce of good

THE NEW SUCTION-FEED

Separator draws up into the bowl just the sight amount of milk—always in proportion to the separating force. If you fast out of note, you may turn a lowly and the bowl will drink up just encoded and alimning and no more. If you feel any and want to get three for clean alimning and no more. If you feel any and want to get three for clean to trim a hat, or to visit a neighbor, turn at fast as you pleases and the bowl will take up proportionally more milk, yet the cream will be of the same thickness. Smooth, even cream, now has the Suction-feed gives you makes quality butter that brings top prices.

The separator has only one thing top pro-The separator has only one thing to do while you have many tasks. The separator has always been a tyrant which insined on being turned at regulation speed, whether you were well of III, worned or happy, rested or worn out. But this new Suption-feed Separator meets your moods. 'is speed in your speed and yet, it gets all the cream all the time.

Why don't you drop a postal to the Sharples people for their new book? Then, you can show your husband that this new in-vention will be a money saver for him as well as a labor saver for you.

Yours truly,

A Dal woman

What this farm womar says in her letter is absolutely true. There are many other pieces of good news in our nw book, "Welvet" for Dairymen, which fully describes this wonderful separator. "Sand for your copy to-day. Address Dept. 77.



The Sharples Separator Co. Toronto Canada





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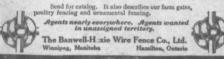
EERLESS Perfection is one of the easiest fences to erect, because it stays "put." It can be erected over the most hilly and uneven ground, without buckling, snapping or kinking.

Every joint is locked together with the well-known "Peerless Lock." The heavy stay wires we use pre-

vent sagging and require only about half as many posts as other fences.

Peerless Farm Fence

is made of the best Open Hearth steel fence wire. All the impurities of the steel are burned out and all the strength and toughness left in. Makes the fence elastic and springy. It will not snap or break under sudden shocks or quick atmospheric changes. Our method of galvanizing prevents rust and the coating will not flake, peel or chip off.









Preparedness in Poultry Raising D REPARE now for a good crop of chicke

Hatch early-avoid late sum-

Early winter layers should be out shell early. the A pullet hatched now is worth three

Avoid twenty-second day chicks. Helping chicks from the shell is inviting trouble

Darken the incubator to keep chicks quiet and induce sleep.

Remove chicks from the incubator when all are dry and do not feed for 36 hours .--- College of Agriculture.

Artificial Incubation

By Michael K. Bover.

OR successful work it is neces-sary to have good incubators, good eggs, and good, common-sense management. The same directions that apply to one will not neces sarily do for another make. Neither can the same directions successfully fit all conditions. But there are some matters that will generally apply to all incubators

In the first place the machine should be strongly built of well-seasoned lumber. Next, it should be located in either a well-ventilated dry cellar, or in a double-walled room above ground.

The first proper step to be taken is to carefully follow the directions as given by the manufacturers. One or more hatches may be necessary to note whether the directions fit your conditions. If not, then there can be gradual changes made, as might be suggested.

portant rules to remember are: Fill the lamps each evening, and never use oil of less than 150 degrees

test Always begin a hatch with a new

wick

Keep the temperature of the egg chamber as near 103 degrees as pos sible, and keep the incubator away from the sunlight.

Test on the seventh and fourteenth ays. Study the air cells of the eggs days. to determine if moisture or tion is needed.

After the fourth day turn the eggs night and ...morning, eighteenth day. up to the

Keep the burner clean from dirt, and scrape the charred part off the wick in preference to trimming it.

Never tura up the flame of the lamp so high that it will smoke. In placing the eggs in the machine,

have the large ends pointing the same way, and never add eggs after the hatch has started.

Cool the eggs after the fourth day, y placing the trays on top of the by on a fertile egg. As soon as the temperature has fallen to 90 degrees,

return the trays to the machine. If the air-cell of the egg is un-usually large, add moisture; if small, is the air-cen of the egg is un-usually large, add moisture; if small, give ventilation. The air-cell on the first test should measure about a quarter of an inch from the middle of the large end; about five eighths inch on second test, and about three-quarters of an inch on the pineteenth

April 6, 1916.

latter, and consequently require dif-ferent treatment.

After removing the infertile eggs in order to have an even temperature for the eggs in the machine, spread

for the eggs in the machine, spread out the fertile ones in the trays so that they will occupy about the same relative position to one another. In selecting eggs for hatching have them of a uniform size, melther too large nor too amail. Also reject thin-shelled eggs, and these having a ridge around them, or round and moorts-shead once. poorly-shaped ones.

Hints for April

F the hens are used for hatching, set them in a dry place where the ventilation is good.

If the hens are not to be used for patching, break them up and get them to laying again. A good way to break up a broody

A good way to break up a broady hen is to put her-in a light, airy coop, with a-wire or slat bottom that cam-be hung up. This permits a free circulation of air and as it blows up through the furf, if reduces the fever which is in her blood at this time. This is the month to get out the

winter layers

Keep the windows in the henhouse

Keep the windows in the henhouse clean, as the hens need all the sun-light they can get these days Hens suffer in a damp henhouse, so it is well to keep the floor covered with litter.

Let the poultry have a share of the sour milk

If one has not had the nerve to use the open front house during the winter, better begin now by removing the windows on the south and use

Eggs from hens that have made a fair showing in laying this winter, will be more fertile than from those fair that did heavy laying.

Keep a flock of hens, a good cow or two, prepare for a good garden this year, and it will not be necessary to complain of the high cost of living.

There never will be too many good poultrymen, therefore strive to be among the best.

Incubator Should be Repaired

By C. E. Brown.

By C. L. Brown. IN a few days incubators will be in operation. Whether the chicks are to be hatched early in March or not until the middle of April, it is time to look after repairs and to get the machine in hape. Repairs for the inchick or happe. Repairs for happe. inchick or happe. Repairs for the inchick or happe. Rep

If the incubator was neglected at the close of last season, it should be thoroughly cleaned. Removable parts should be taken out and washed and the entire machine should be aired and sunned. A 10 per cent. solution of zenoleum should be used as a disin-fectant in washing the interior of the machine. Failure to clean the burner and rinse out the famp may prevent regular heating when the incubator is in operation.

Turkey Pickings

THE turkey crop hatched previous to June 1st, should attain good growth by last of November, the cock bird reaching 10 to 12

the cock bird rearing to to as pounds. The turkey is not fully matured un-til two years of age, and is in his prime at three years, and nearly as good at four years old. It is there-fore a mistake to sell off all the older birds and retain the young ones for birds and retain the young ones for birds and retain the young ones for

on second test, and about three bereding purposes. quarters of an inch on the bineteenth day. Incubating white and brown-shelled and have thrown out the red on their ages at the same time in the same machine generally results in unsatis-three months of age. After that they factory hatchs. The abells of the are hardy, and may be allowed un-former are thirmser than those of the imited range at all times.

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W. W. Ballantyne as a Farmer

(Continued from page 7.) As cream is shipped from this farm In the Ballantyne stables a home made

has cream as stapped from this farm there is much skim milk to be dispos-ed of and porkers have been found most satisfactory for the purpose. In the past the plan has been to buy in. feed and sell about two score of hogs sach year. Recently, however, good pure bred Yorkshire breeding stock has been purchased and pigs will be bred on the farm from now on. There is also a small flock of registered Southdown sheep.

Southdown ancep. Perhaps the most notable feature of mechanical side. Mr. Ballandyne and bis son seem to have everythings in the lime of farm machinery from a pitch fock to their own threading and side filing outfit. Some idea of how the solving the farm labor pro-blem by the use of new and up-to-date machinery, was given in the last Farm Machinery Number of Farm and Dairy. In that article, however, I did not beaids on the farm. The stable equip-ment, for instance, was entirely neglected. "It's a caution the amount work we can do in a short time in the 12 if you only have the con-

Stable Conveniences.

And they have them. Just how movement the litter carrier is, for instance, they discovered one day when it was out of commission, and 17 big wheel-barrow loads of manure had to be taken out in the old fashioned, back reakin manner.

We all know that out straw makes the most satisfactory bedding, but that it cannot be carried on a fork.

an the partantivity stables a home made carrier runs right alongside the straw chute, and solves the problem nicely. The feed car which runs on an over-head track from the root cellar and side down between the root ceaser and alke down between the two rows of cows, antedates the commercial feed carriers now on the market. It wass invasted by the Ballaptree them-solves, and is superior to many of the most up-to-date carriers obtainable, in that it has two compartments, a big one for ensilage or noots, and a smaller one above for meal. This double compartment carrier is particularly convenient where the ensi 820 and meal are fed together, as is the practice on this farm.

Of course the cows are watered in the stable, a small gasoline engine pumping the water to a tank in the upper part of the barn. When neces-When necessary a hose is attached to the pump, the engine started up and wagons, buggies, spreaders, or the family automobile washed most expeditiously.

Conveniences in the Home.

The Ballantyne home was built many years ago, before the Ballan-tynes owned the farm at all, if I reiynasi owned ibe farm at all, if I re-member ourrely. The ourveniences in the home, however, mast all be credited to the present owners. The use of mechanical power has not been ilmiked to the farm end. A two-hap, gasoline engino has recently been installed to pump wake. A beil runs up through the basement floor into the behine and mining the washing ma-chines and sources. The engine is situated outside of the house akto-

complete. Above the kitchen are tanks for both hard and soft water. In the basement is a large soft water cletern. A system of changeable valve makes it possible to pump either hard or soft water with the same pump. The running water system has been in the house for 12 years, but until recently the pumping was done by hand, and, of course, kitchen and bathroom have both hot and cold water on tap. Yes, the Ballantyne farm is a good

one. And why shouldn't it be? So far as I know it is the only farm in iar as I know it is the only farm in the county worked by two graduates of an Agricultural College. The farm is a testimony to the value of such a training.-F.E.E.

Reduce Fire Risks

Fraser, New Westminster Dist., B.C. THE average farm building is a first tay from one end to the other. It is full of readily in-flammable material. Once started, a farm fire is very seldom stopped. We will suggest a few precautions which

ve take to reduce fire risks. If a lantern is upset almost anywhere in the ordinary harn or stable, there is a littler or chaff around to take fire. The first precaution we would advise is to clean up the chaff and littler and eliminate this danger. Another precaution is never to set a lantern down where it can be knocked over. Everywhere in our barns we have convenient hooks or wires running from one end of the stable to the other on which the lantern may suspended.

Spontaneous combustion is suppos-

Metallic Siding

gether and noise and odor are thus ed to be the cause of many farm farm. done away with. The running water system is most omplete. Above the kitchen are into hundreds of case, states bis huinto hundreds of cases, states his be-lief that in almost all cases of so-called spontaneous combustion the heated spontaneous combusion the heat-ing of the forage was not sufficient to set the forage itself on fire, but that it set some smudge of oll or grease a-blazing. The dirty landern carried into the hay now is a prolific disturbutor of oll dirt. The best pre-underive is to throw down the hay. ventative is to throw down the hay by daylight. A lantern in which the burner is always kept clean, however, is not so liable to distribute oil.

We never let the tramps sleen in We never lot the tramps sleep in our barns, no matter how solemnly they swear that they will not smoke or throw matches around. They are a prolific source of farm free. We restrain our own hove for "the weed" when we are around the buildings. Farm and Firesde, compares a machine may to a support smoking man to a walking stick of dynamite, and they are about right. There may be dozens of other methods of reducing fire risks. These are a few

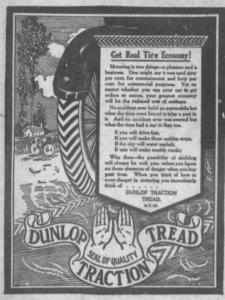
Dirty feed pails are the most pro-

life source of summer scours in calves. The good herdsman is always on in-timate terms with his charges. We timate terms with his charges. We have even known herdsmen to carry lumps of sugar in their pockets for

It is only natural that the difficulty of rearing calves should increase as the productive quality of the herd in-creases; the nervous organization is then more fully developed. The trouble and cost of boiling the

strainer cloth after every using is greater than the first cost of colton cloth. Have a fresh cloth for each using.





Simple Concrete Wall Construction

farm farm buildings. Where merely serv-ing the purpose of an enclosure, such ing the purpose of an enclosure, such as a barnyard, it is not necessary to construct the wall more than six inches thick. Simple methods of construction are as follows:

struction are as follows: The most important consideration in the construction of any wall is a firm foundation, sufficiently deep to pre-vent heaving by frost. In most local-ties this distance is three to four feet. When the earth is firm and the sides of an exceasation will atand up verthof an excavation will stand up verti-cally, it is unnecessary to use wooden forms for the portion of wall beneath ground level. A trench of the requir-ed width is dug, taking care that the ed width is dug, taking care that the sides of the trench are traight, tor-tical and fairly smooth. The width of all walls below ground level should be at least 12 inches. Where sandy or crumbly earth is encountered, it is best to use wooden forms below ground level. In depositing the concrete in the foundation trench see that no dirt the roundation trench see that no dirt falls into it, as this would weaken the wall. The proper proportions for walls below ground are one bag of Portland cement to 2½ cubic feet of sand to five cubic feet of crushed rock or pebbles

When the trench is filled with con-crete to ground level, a simple form, as shown in the drawing, is set in

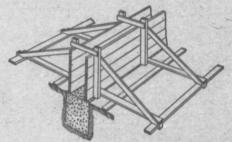
ONCREPTE walls are easily con-structed and at low cost. These walls are especially suitable for m entrances or esclosures about the bald about two inches above the indication of the second the second the second the bald about two inches above the isld above the isl

April 6, 1916.

Good Hay and Good Wheat Daniel Horst, Waterloo Co., Ont.

- AVING noticed in Farm and Dairy that you desire to have experiences of farmers in different kinds of farm work I thought I ent kinds of farm work 1 thought 1 might give an experience of value to your renders. In the fail of 1918 1 had eight acres of clover sod, which 1 in-tended to use for potatoes the answing year, so 1 manared it guite bavily, with the intention of plowing it down in the sprine. When spring came one and three-guarter acres of the eight was too we to plow in time for poin-toes, so we left that strip for hay, and when having came we took at sood when haying came we took six good loads of hay from the one and threequarter acres, which I considered was very good, as the average hay crop was light through here, many getting less than one load per acre.

After the hay was off we plowed the cod, and afterwards top cultivat-ed for wheat and in the first days of September we sowed to wheat with-out any masure or fertillars added, and the wheat crop last year on the strip was a wonder, it being too rank



Simple Form Construction for Concrete Wall.

place. The surface of the foundation at ground level must be entirely free from dirt, chips or other foreign subfrom dirt, chips or other foreign sub-stances and the concrete roughmed-before depositing upon it the above-ground portion or wall proper. The miniforum thickness of walls for very light structures may be four inches, although it is very difficult to deposit concrete in a wall this thin. A thick-ness of six inches is better for most-parposes. The proportion of walls above ground should be one bag of Portand cement to two cubic feet of and to four cubic feet of crushed rock or pebbles, Bank'eur gravel may and to four onbie feet of crushed rock or pebbles. Bankrung gravel may be used if the pebbles are separated from the sand by screening through a ¼-inch screen. For the above-ground portion of walls the forms should be made with care, the boards being care-fully matched so that a sumoth sur-face will be obtained in the finished wall. This result is obtained by spac-ing the concrete as it is being placed in the forms. Spading consists of thrusting between the form and tha 'yer's concrete, allowing a rich mor-fut the the concrete, allowing a rich mor-tion the concrete, allowing a rich mor-These serves to roree the stone back-fine the concrete, allowing a rich mor-tar coat to flow against the forms. In walks above ground II is well to rein-force with small steel rods or wirs-mesh. This reinforcing runs in both directions and serves to prevent any cracks due to extilement or other

Walls for buildings can be con-ructed as described, but for build-

as it lodged very had some four wee before it was ripe, thereby injuring the grain to some extent. I may have manured the piece too heavily, and again it had been an exceptionally good year for wheat; in an ordinary year it might have been just right.

Measuring Hay in the Stack

"HE most common method of sell-ing hay in the stack is at so much per load when it is drawn 1 away. Occasionally, however, it is desired to buy or sell a stack as it stands. sured? How can its cont

sured? In the states of New York and Vir-ginia, 55 stacks of hay which had stood less than 30 days, averaged 539 cubic feet per ton and 30 stacks which had stood from 30 to 60 days, aver-aged 531 cubic feet, Seven stacks which had stood from 74 to 156 days averaged 515 cubic feet per ton. These stacks were probably of ordinary mis-ed hay such as is usually sold in Can-ada, and from these figures we see lib-te to fustify the rule of 430 cubic feet to the ton which is sometimes followed to the ton which is sometimes followed on this side of the line.

on this side of the line. Some of the states of the United States have laws governing stack measuring. In Wyconing the law pro-vides 422 cuble feet to constitute a ton of native blue joint havy 513 cuble feet for a ton of alfalfa and 450 cuble feet for clean timothy or clover akket 30 days up to one year.

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Pasture month

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one m Interest cows 6 per Deprecia Use of s Service :

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820 cans 790 came Milk for at hon Value of hand .

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too much having the No udde results if f ing tubes. that is no had been t per cent. s til time to There is



Fencing? Yes, but what kind?

The farmer who thoroughly examines the relative metits of the various brands of wire fences offered to him will not have any difficulty about deciding upon the one he ought to have. Let him decide by that most unerring of all tests—weight. Willy lugde by weight Because weight means attemute the weight weight attemute means durability and long life. Of the different makes of wire fences, there must naturally be one that will weigh heavier than the rest

The heavy-weight among fences is the "Ideal"

The reason is that all the wires are full gauge No. 9 hard steel wire; every wire is full of life and strength, and heavily gal-

vanized to properly protect and preserve that strength. You therefore get longer service from "Ideal"-most for your money in strength, durability and allround satisfaction.



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FEEDERS CORNER

Profit of \$43.90 Per Cow By F. H. Westney, Ontario Co.

AVING been engaged, in dairy farming for the last few years, and finding the net profits quite

The and making the net prosts quice satisfictory, I will endeavor to ex-plain to your readers my opinion on the cost of keeping a dairy oow. We use a mechanical milker and find that it gives excellent results. Our

cover are pure-brea and grade Hols-teins. This bread we consider best for our business for the 40 bowing reasons: They have good appetites and capaci-ties, qualities necessary for maximum results, and they are not pernickety feeders. We do not produce certified milk, but ship to one of the large Toronto dairies.

Cost of Keeping 20 Cows for One Year (1915.)

Pasture six months at \$1 per

tendance, milking, drawing milk to station each morning,

one mile, etc. Interest on investment of 20 cows and milker, \$2,150, at 275.00

6 per cent. 129.69 Depreciation risk, at 6 per cent. 129.00

Total\$1,377.00

Receipts.

820 cans mdHc, at \$1.40 net . \$1,148.00 790 cans msHk, at \$1.15 net . 908.50 MiHk for use of house and sold

at home 73.00 Value of calves sold and on

1	hand	1		1	1	*	1	1	1	2	•	1	1	1	•	1	1	1		*	1	٠		225	.00
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For one cow this figures out as follows

Cost of keep, per year		\$ 68.80
Average receipts		 112.70
Net profit		 43.90
Average milk yield, 1bs	12	 6.909

Maay dairymen no much over this amount, and we hope to do so .his year, as we are continually weeking, but this leaves one a very nice profit and the writer finds the work Very pleanant, and by using the milker the most disagreeable job (to many) is done sway with. .Of course all are hor owney with situated as we are. Be-fore well situated as we are. Be-fore well situated as we are in the situated as we are be-per well situated as we are in the situated as we are situated for a better were shipping our pro-fits on better were shipping our pro-tout desires, and thereby get the best price all round. Many dairymen go much over this

Making Use of a Milking Tube By Karl B. Musser.

WHEN the teat has been damaged in such a way as to necessi-tate the use of a milking tube,

Vv tate the use of a milling tube, from much care cannot be taken in having the take sterile. No udder can be handled with good presule if foreign genus are constantly being introduced by unsankary mill-ing tubes. Many tisses that quarter saved if the table could have been worked in the submerged in a first had been washed well in milling the had been we first and the submerged in a first per cont. solution of carbolic acid un-ti time to use fit again. til time to use it again. There is no necessity for further

FARM AND DAIRY.

precautions if the hands are ch precautions if the hands are cleansed and the tube is inserted into the test direct from the antisoptic solution. The tube thoul touch northing after being taken, out of the solution and until being inserted into the test. Infections in the udder are practi-cally fingueable to trast effectively, so precaution in the use of tubes, bis-forming to general, edg, will often,

so procession in the use of tubes, bis-touries, test openers, etc., will often-times save much trouble and expense. That man may use a milking tube who is cautious enough not to intro-duce foreign substances of an infecti-ous nature into the udder.

Care of the Dairy Heifer E. G. Woodward, Nebraska.

A of the beffer's life is the most critical period of her existence, still many helfers are stunted, due to lack of attention after being weaned.

lack of attention after being weaned. It is a rather common practice to have cows calve in the apring, yet this is not usually the best time. It is a fact that a calf bear in the fall will get a better start in life than one horn

in the spring. It makes little difference in the rate growth of a calf whether it has tion with its milk. But after wean-ing time the calf that has pasture will ing time the call that has pastare was make by far the cheaper and more rapid growth. A fall calf will also be ready for breeding so that it will drop its own calf in the fall at the age of about two years.

Furthermore, a cow will give best returns when freshening in the fall. This is true because it is usually easier to maintain a steady flow of milk through the winter and early spring than during the summer and fall. Also, dairy products demand highest prices during the winter.

Feeding.

Until a calf is weaned it receives a liberal allowance of protein in its milk, but when malk is removed from the ration it is necessary to supply protein in some other form, such as protein in some other form, euch as legume hay or a high protein concen-trate. It is advisable to keep the heater in a thrifty, growing condition, akhough there is no need of fattening her. Hewever, if ahe does become rather plump it will not injure her dury quadities.

rather plump it will not injure her dairy quadities. If fed so as to induce a thrifty growth yet not produce fat, dairy helfers will gain on an average close to one pound daily, from the age of six months up to two years or calving time.

Six to Twelve Months Old.

Six to Twelve Mantha Old. Ration 1.-About two bounds dauly of a mixture of 75 pounds corrachop and 25 pounds bran; all the atlalfa hay the helfer will eat. Ration 2.-Six to 10 pounds sings; about two pounds corn chop, 40 pounds linesed meal or octoorseed meal, and 20 pounds bran; all the affairs hay the helfer will eat.

One to Two Years Old.

One to Two Years Unit. Ration 1.-About three pounds of corn daily; all the alfalfa hay the hefer will eat. Ration 2.-Corn silage, 12 to 20 pounds; about three pounds daily of a grain mixture of equal parts corn chop, bran, and linseed meal or cotton-seed meal; all the adfalfa hay the hefer will at heifer will eat.

Breeding.

The proper age at which to breed a heifer will depend very largely upon the size and thrift, of the animal as well as upon the Breed.

Well as upon the breed. Jareyo or Gaserney helfers matures more regisfly than Holsteins or Ayr-elliven and hence are ready for breed-ing at an earlier age. The approved practice is to breed a Jersey or Guarn-asy helfer at the age of 18 to 17 months. A Holstein of Ayrabirs helfer if in good thrift may well be bred at the age of 17 to 21 months.

Fatality in Colt

Takiniy in Cor W 15 and a time out is recently. About Christmas be asomed to get dump and hough he still are will. He lay became the stable until areding, and then became the stable until areding, and then became the stable until areding and the became the stable until areding and the became the stable until areding and the became the stable until areding and became the stable and the stable are and the stable and the stable are and the became and the stable are and the stable are the stable and the stable are and the stable are the stable are and the stable are and the the stable are and the stable are and the the stable are and the stable are and the whole of both front legs and from root of

tail to the ground were covered a sores. He did not seem to suffer in pain after the sores started to run, ate scarcely anything .--W. A. R., Gier

The symptoms are indicative of that The symptoms are monoauve of that contagious, incurable disease known as farcy, which is generally considered a form of glanders. If you have any more horses affected you must notify the Véterinary Department of the Dominion Parliament, Ottawa, Ont.



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This book is the standard authority on farm building construction. More than 75,000 progressive Canadian farmers have benefited by its pages. Let it be your guide.

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April 6. 1916.

The Merits of Corn Ensilage for Dairy Cows Fertilizer Ouality

Silos in General and a Chapter From my Own Experience-By,M. J. Hogan Renfrew Co. Ont

HE successful dairynus is the one who runs his dairy upon the same principles that

⁴ upon the same principles that the marchant or manufacturer uses in his business. He is looking for oppor-tunities to increase his output and at the same time decrease the cost of production. Many farmers will tell you that they cannot afford a silo. The question is not, can you afford a silo. but can you afford to be without. 44.9 A silo is the one thing that is absolutely necessary to the profits of the dairy, for without it, no dairy can pay the profit that it should to be a sirable inves

destructe investment. To make the dairy pay larger pro-fits, it is necessary that the cows should be fed upon some food that can be raised at less expense than the usual hay or grain crops, that will increase the flow of milk and at the same time be beneficial to the cow. This problem can be successfully solved by raising corn and putting it in a silo, the cost of which is much would contain as many tons of hay as the silo would of ensilage. Then, too, every farmer has fand that would be benefited by plowing for corn, thereby clearing it of weeds and putting it in the best condition for re-seeding.

A Source of Much Loss.

Many a dairy farmer is raising corn to-day and actually losing a large per centage of the crop. Much of it is to day and actually forms a large per-centage of the crop. Much of it is wasted in the field and more of it is wasted in the cows' mangors, as the large, dry stalks contain but little nutriment and are not eaten, but are thrown from the manger into the yard to be trampled under foot. 16 is certainly a poor policy, and a ridioulous practice to devote the use of good land to a corn crop, put in time and hard labor cultivating and caring for the same and then allow a large share of it to be wasted.

This waste can be avoided in way and in one way only, and that is by putting your corn in a silo; the succedent, juicy enslage has much more than the feeding value of cured corn fodder. It is far riober in milk producing elements and more bene-ficial to the health of the cattle. Also every particle of ensilage is eaten with no waste whatever. Ensilage gives the cows through the fall, spring and winter months just the feed that they require to keep them in perfect health and to produce milk. Instead of dry hay they receive rich, moist, juicy enclage of a uniform quality, taking the place of their natural food. the pasture grass, which they get in summer, keeping in the best of condition

Hay is Expensive Feed.

Hay is one of the most expensive, if not the most expensive, crop grown on the farm when K is fed to the dairy herd. When the average hay dairy herd. When the average hay crop is usually less than two tons per acre, a good cow will consume the greater part of her summer earnings if wintered on hay alone. If we com-pare the yield of hay with that of corn, which often runs as high as 20 tons per acre, and when put into ensilage is sweet, rich, juicy and wholesome, every particle of it being eaten with no waste whatever, it is obvious that

wish to produce msR, increases the flow of milk and also does away with the feeding of grain and consequently reducas the expenses. The cheapest and most convenient

way of harvesting the corn crop is to put it into a silo for ensilage. The lo put it into a sile for englage. The work is all done and out of the way at one operation. The silve crop is removed from the land, leaving it ready to prove, the above of putting the corn into whocks is done away with and the work done done away with and the work does not depend upon the weather. If rain comes on, the corn is not damaged for enslage in the least, but is sometimes banefited by the water. There is no way in which the same amount of corn can be stored in as small a space all under cover in such a convenient mannel and shape for feeding as in a silo.

The Surest Crop Of All.

The corn crop is always sure. Every farmer who has raised corn, knows that the corn crop is the surest and most dependable crop that he can raise, for it is less affected by weather conditions than any other crop. 14 does not rely on the summer rains, which the summer of 1913 and 1914 proved to be very uncertain. I The serious drought keeps the corn grow ing when all other crops are drying

It is a problem with all dairy far-mers how to keep more stock on their ners now to keep more stock on allow farms or how to keep the same stock that they have now upon a flower number of acres and thus leave them more land to devote to other orders. To such farmers, one of our allos enables them to keep the same num-ber of cows on a far less number of her or cows on a lar less ninner of acres, also deriving a larger profit from them, and at the same time be able to dispose of a large amount of hay or other produce without robbing the land.

The Writer's Experience.

So far the writer has refrained from speaking in the first person, but in order to substantiate some of the statements made above, he finds, it necessary to do so. Having been a grower of corn for the last half dozen years and two years ago, having an extra large crop, I decided that it was almost impossible to save my crop without having a silo. About the tast of June I purchased an Ideal Green Feed silo. Now as to this silo in itself, it has given me entire satis-Now as to this silo faction, and although I have had only two seasons, I can say with all veracity that it is an indispensable article to the farmer, and especially to the dairy farmer. I regret very to the dairy farmer. I regret very much that I cannot give sufficient statistics, for the short time that I arm in possession of this valuable article would not allow me to do it justice. I shall prove some of my for-mer statements, however.

The silo which I had erected last summer is 12 x 28 feet. A silo of these dimensions is supposed to hold about 80 tons, and I think it is correct, for it just took about five acres rect, for R just toos about the actes of last year's crop to BE R. To show how quickly and with what Hitle trouble chat crop was saved, R just took three days from the cime began to cut it entil it was stored in good no waste whatever, it is obvious that to cut it entil it was shored in good feeding hay is not to be considered. considered in the sile. I feed from the When a couple of feeds of hay is alto all winter and I never found any saved per day by feedings emiliany, of the emiliange dammared by front. Of which keeps the cows in just as good course the corra was well as wed, ber consider, if not betters, than the hay, this would not make any difference at it is readily seen that the cost of win- it was not escure from the front. Some trying the castle is decrement by it of these chains that near the wall of the consider, which replaces the grad with the most of these thange the wall of the state of the set of the state of the state of the consider, which replaces the grad with the side of the state. I have no which must be fed with hay if we proof for this spart from what I hear,

When you buy fertilizer remember you are buying what is in the goods and not merely a weight of two thousand pounds.

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April 6, 1916.

but I am inclined to balleve it, for essenti attracts front. As to the cost of the site I must admit when I first considered the price of one, I knowski it was sitee. I would say new, however, that a allo is cheap at any price. Although I with humility and with apolotics as have had mine only two seasons, it is a price when it should be the price of the locality, that I am have paid only two seasons, it is a base at since the site of the solution of the solution of the price of one is any price. Although I with humility and with apolotics as have had mine only two seasons, it is a member of this locality, that I am have alknows the solution of the solution of the income of the solution of the solution of the solution of the although many of the farme, a solution of the solution the costing are in better condition the that extres hay. To the daryman the

FARM AND DAIRY.

A Fine British Columbia Dairy Farm

Shannon Bros. Have Good Stock and a Completely Equipped Plant

<text><text><text><text><text> A pure water supply is gotten from a flowing artesian well, which has sufficient pressure and flow to supply all the water required on the farm.

The Ayrshire Herd.

The dynamics of the initial The dynamics Herd. The Grandview herd consists of 50 pure bred synships and 20 head of high grades. At present the herd is headed by out is imported bulk and once Canadian bred. This latter is bred risk of the theory of the theory of the converties observed on the second synchro recover of 1,195 lins. of milk and 53 hes of butter fist in a year. Among the females in the herd is a troyyear-old helfer. Grand Yiew Ross, with a record of 3,511 lins. of milk and 55 hes of butter fist in 365 days. The survage butter fast test of the whole herd runs around 41 per cent. As certified milk is the main pro-duct of the farm, the milk ration of the calves its limited. They are fed whole milk until two months dd, and for the next month one and one-half

for the next month one and one-half quarts milk with Bistehford's Calf Moal. In feeding the calves, several

Meal. In feeding the calves, several standioms are opened by a strip above. When feeding, the stanchlong are closed and the valves held in place for some time therefuture, thus design away with the practice of sucking. The cow barm is harge and roomy, with plenty of light. The foors are of coment, the stall fittures up-to-date, work facilitated by over-head, litter car-riers and, being meade all round, the temperature is kept uniform and the almosphere sweet and clean. The ayriten of vantisation installed is party original with distance Brea. partly original with Shanon Bros., being an adaptation of the Rutherford system. The coid air intakes are near the floor and are indirect. The warm and foul air escapes through ventile-

and foul air scoapes through ventile-form in the celling. This system works so perfectly that there are no direct drautht, but a constant checulation and even temperature is maintained. The dray house is equipped to handle high class market milk. The milk is removed at once to the dairy building, cooled to 56 degrees, imme-diately bottled and held at that tem-perature till shipped. A steam bolic

follows: "We milked our first cow mechani-cally on the first day of August, 1912, and in about two weeks we were milking our 23 head. We got the cows that had to be milked on the left aids well accardromed to the machine be-fore we put it on them. We believe that a mechanisme fore we put it on them. We believe that a great many rush the matter of setting their cows on to the ma-chine before they zet accustomed to it. At the present time, we are milk-ing 44 cows. Two men with the three units milk 30 cows an hour, and this methoding stripping the cows and carrying the milk to the dairy.

"The test cups are washed every morning. A brush is run through the tubes that the milk goes through, and this requires about five minutes a day. The rubber tubing is then placed in a solution of chloride of lime till the next milking, when they are rinsed before using. As to the cleanliness of milk produced under these condiof milk produced under these condi-tions, we night metiton that in the recent Dairy Convention, at New Westminster, we lied for first place in the approved milk class with a score of 98. Our bacterial count has always been well down for approved market milk We are satisfied that the milking machine is a great labor saver, as well as heing more sanitary where reasonable precautions are em-plored." ployed."

ployed." In the positiry department at Grand-view, 75 White Leghorns are kept. Pure-bred Cysiedade hornes are an important sideline, the stock consist-ing of three pure-bred marces, three yearings, and an imported mature ind two-pearold staffion. In addi-tion during and the stock count of the stock of the stock of the desvoring to run an addressed for the stock of the stock of

Practical

LITTLE Edna, four years of age, was saving her prayers just be-fore jumping into bed. She was on her knees a few seconds when she turned to her sister, aged six, and

Huffee to her sater, area six, and asked: "Why wouldn't it do to pray for our bread once a week or more a month? Why must we sak for our daily bread every day?" "So as to have it fresh," replied the "der"



Business Men and

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14 Save

The Points of a Jersey Cow

Bartley A. Bull, Secretary Canadian Jersey Cattle Club, Brampton

O in my estimation the Jersey cow is always a little better than any of them. She has been bred for any of them. economical production of milk and oream for several hundred years. She has been bred closely to one type for 800 years; that is, on the Island of Jersey. In America, fanciers have pose cow, one that will qualify in both production and in the show ring. The breeder who selects a sire because of production only, we believe, stands a chance to weaken constitution and the result of such breeding is almost always a cow with too much daylight under her. We dairy breeders must balance everything to get a proper

medhae. When I am judging dairg cows I first take a look at the head. The cow's character is almost always revealed in her head, although, of course, no one point is infaible. In the Jersey we want a small horn, nicely incurving, but we do not hay too much atreas on ton do nervous tamperammet as revealed in cool distance between the machine. revealed in good distance betweep the eyes, a dished forchead and a arge, bright, but placid eye. There are two types of head in the breed. I myself think it is a mistake to favor the longer head. One that is clean cut with wide muzzle and a good open nostril, pleases me.

The neck of the Jersey must be long. Such a neck is indicative of a good loces, open, working type of cow The neck too, should blend nicely into the shoulder. Fads In Judging.

Some dairymen by great stress in the openness of the backbone. They say if they can feel an animal's back-bone, with their eyes shut, they know whether or not she is a good milker. I pay attention to this factor in con-formation, but do not regard it as a fir criterion. Other judges will im-mediately determine the length of a cow's tail. If it reaches a little below

THEER breeds may be good, but make a milker. This, too, I would in my estimation the Jersey cow class as an "Old fogey" idea, although it is one of the points, too, to which we must pay some attention.

We must pay some attention. We Jersey men attach much* im-portance to the shape, size and quality of the udder. We want an udder that is carried well forward and well up behind. If carried short behind and before, there is a tendency to a pen-dulous udder and teat troubles as the cow gets older. The plecing of teats is receiving greater attention all the time. We find that this placing has much to do with the quality of the udder and our official score cards have udder and our official score cards have doubled the points on teats in the last year. Milk veins on the other hand we are lody have received too much attention, and we have received the points on this. Old cover may have large and torthous milk veins, withouse them have never these cover although they have never been excep-

Capacity Indicated by Depth

Now for constitution. I believe that a cow gets her capacity in depth and not width. Hence I would lay more stress on a deep heart girth, than on thickness through the heart. The Jersey is not a large cow. Let

The Jersey is not a same own. Jersey is not a same own the me impress this point. It is for this reason that expert judges sent out by our Departments of Agriculture, are so often unsatisfactory to Jersey men. They do not realise that a cow men. They do not rearise that a contract of the second sec

til the last few years. Over in Jersey, American importers would not buy anything but solid colored animals. The result of this is that importers have recently found that if they would bring the best animals from Jersey they must bring broken colored cows, and I would estimate that 95 per cent. of the best of recent importations have and some white on them. We are for-getting color in the Jersey breed, and is in plate that the set of the hock she is a good one. If it does it is right that not reach to the hock she will not little importance. it is right that we should. It is of

The Type of the Well Bred Holstein

A.S. Stevenson, Ancaster, Ont

not go so wildly for phenomenal records, as we have been doing. I have seen cows with phenomenal records to their credit that seemed Where are weak around the heart. Where are we going to, and breeding from cows such as this? This is a question for Hoistein men to consider well. The black and white cow is the old-

est of the dairy breeds. They are the large black and white cattle of North Holland that have been bred pure for perhaps 2,000 years. I would empha-size that word "large." Mature cows size that word "large." Mature cows of our breed should weigh 1,600 lbs., and mature bulls 2,000 lbs. or more. There is a tendency in some herds to breed too fine and small. We should

New for points in conformation. We look for a longer head on the Holstein than you would find on the Jersey. We want a broad muzzle and we want a long neck. My experience is that cows with long, slim necks are persistent milkers. The cow with the persistent mixers. The cow with the abort, buil neck is a spurt miker: A little width on the top of the shoulder is not objectionable in this breed.

The drouping rump is objectionable in any breed. It is usually accompan-ied by an udder that is slack in the fore quarters. This is one of the

Watar is the type of the Hol- weaknesses of some strains of the stein? Our breeders wilk be black and whiles. There are other wise to get together and de places, too where we can improve. A cide on a type and work for it, and good many of our cows have too much not go so wildly for phenomenal daylight under them.

dayight under them. Another weak point is the confor-mation of the udder. When we first went into Holsteins the breed, as a whole, had narrow udders. We have succeeded markedly in breeding away from this characteristic. The narrow udder is objectionable from many standpoints. For instance, we hear stantopoints. For instance, we all know that the pendalous udder is a dirty udder. We will get rid of this character of udder in the breed through use of the right kind of sires.

The milk vein as a criterion of milk The milk vein as a orderion of milk-producing ability is sometimes mis-leading. Especially is this true in an old cow. The vein may be large and toriuous, due to a small well having proven an obstruction to blood flow. Still, however, we like a good development of veins.

Constitution is one of the most im-Constitution is one of the most im-portant points in dairy catile. Mak-ing milk is a hard job on any cow, especially in the poorly-volitisted sta-bles that are too characteristic of this country. On no account would I buy a built with a weak heart. Let us put constitutions as one of the first objects in our breeding operations. Color is not usually regarded as important. A patch of mixed hair, however, is ob-pectionable.

When You Write---Mention Farm and Dairy



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FARM AND DAIRY.

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PLAGED

The Business Farmer

Net day i took a filte drive anyong the ruralites, To vielt with a few of them, also to set the sights. I saw one farmer hitching up a mig their set or nu down; He had to wire his harness are he started out for four down; aked him pointed questions about what his income was; He said he could not give me an account of it because He hadrit kept the "flogers," but that thives sealing usessed: Herd made "a durned poor livin", and th' landlord got th' rest."

And then I saw another one crank up his motor car; He smiled when I approached him, saying, "Well, I see you are About to take a spin, buil term eask before you go, "How is it that a farmer can be spreading it on se?" Why, stranger, iet me show you how my business standing looks," He said, and took me in to where he kept a set of books. In them I saw a record, kept in simple, handy vay, Which proved to me that business mixed with farming makes it pay.

-Charles H. Meiers, In Farm and Home.

The Type of a Dual Purpose Shorthorn

Prof. Geo. L. Day, O.A.C., Guelph, Ont.

change to the dual purpose cow. There are many men in the Province of Onare many men in the Province of On-tarlo, however, who want a dual pur-pose cow, and they have a right to the type sitey prefer. This is a free coun-try, and free men may do as they will. It was to satisfy this demand that we imported some dual purpose catile to the Collers a countar to more that to the College a couple of years ago. The dairy Shorthorn comes as close

to being a dual purpose cow as any. The Red Polls have made excellent records, but we have few, if any, of them in Ontario. We have Shorthorus, them as Ontario. We have chortabrias, however, and in developing dual pur-pose type we can start from the foun-tation stock we already have.

Generally, I should say that the difference between a dual and the Scotch Shorthorn type is that the former is a more angular animal than the latter. Dual Shorthorns trace back the satter. Dual diborthorns traces back to the breed of Thuos Rate, and the type has been maintained ever since. One of the scows in the Guelph dairy fact gave 36 like. of milks a day during the leat. This is not thin milking, viewed from the standpoint of the dairy fancher, but H is good miking for the dual bype of cow. We have a sow is our own herd that has never a low or not own herd that has never day, hat she did give over 31,000 h a drukk he waar. of milk in the year.

The greatest difficulty that I can see in developing dual purpose cattle in this country is that of securing stres with much milk behind them.— Eynopsis of an address.

Work for the Bull

<text><text><text><text> F ARMERS generally do not begin

T^{1HB} man who has right good dairy and the bull came home fresh as a catle and is in the dairy bust dairy. For any work around the place neas, would be foolish to make a that requires only due home ye use shanars to the dual purpose cow. There the bull, as he is just as homely and much stronger.

Bull and Stallien Teava. We have a registered Jorcheron stallion that we frequently hitch at side of the bull to plow, and they make as good a plow-team as a man could ask for. The bull was de-hormed when he was a year and , half old He can be driven with resing Bull and Stallion Tearn. horned when he was a year and , han old. He can be driven will reins, but we use a whip mosily, and drive as you would an ox. For harness we turn a horse collar and hames upside down.

down. We have a herd of grade cows which we breed to this bull and raise all the heffer chives. He has sired some good once. About seventy per cent of this caives are helfers. Before this bull was broken he was slow at service, but new ste dow at service, but now at five years he is as satisfies, but now at new pears he is as quick and vigorous as a yearing, and a sure gotter. He has never shown any signs of being cross, and a twelvo-year-old boy can drive him anywhere. We are going to buy an ox to work with him

with him. Work the Built Till Old. If farmers who make a practice of human a bail would only buy a pure-base of the second of the second heat of the second of the second heat of the second of the second heat of the second of the second the second heat we must be a farm as a pair of horses. The second heat we must have bailed a title bit we will and heat in the second whom we must have bailed a title bit we will not heat in the second whom we must have bailed a title bit we will not heat in the second whom we must have bailed a title bit we will not heat in the second whom we must have and horse a second built. Teach have the second bailed bits while and prove a second built. Teach have the second bailed bits and make him doubly produble.

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In Union There is Strength

Farmers' Company Flourishing RADE Bulletin No. 10 of the United Farmers' Co-operative Company. Ltd., shows that the Company Ltd., shows that the company's business continues to ex-pand in a very satisfactory manner. In the most' of February, over \$40,000 wort', of business was done, which '__ the best monthly record since the company was organized. It is avient that the company may comparised. is evident that the co-operative move ment has become deepseated and widespread and more farmers are coming to look to it for their emancipation from the unreasonably emancipation from the unreasonably high cost of raw materials for their industry. It is also being hopefully watched by those consumers of farm products, who desire to eliminate the nreasonable accretions to the prices of these products after they leave the

The Farmers' Company and the Seed Trade

DUTOR Farm and Dairy.-We E DUTOR Farm and Dairy.-We were much interested in the re-ference to "Activities of Dis-trict Representatives" in your issue of Mar. 23, and especially in Mr. G. R. Green's report of an Orford County Clubb expectiones with cheap clover seeds. In this case the seed was re-turned to the supplier; the particular club in question has gained by its experience and the central office of The United Farmers' Cooperative Comparent has manual by the second Company has gained a big order for seed. That club was too intelligent to keep the bad seed, but how many of the seekers of that kind of seed or the boosters of cheap seed would wish to have the District Represe tive make an examination of what they are paying good money for?

The question is, how much un-graded seed goes out to the farmers and is not returned, but scattered over the fields with its burden of weed seed? This question is raised in our mind because we know of people who expect this office to furnish them with just such ungraded seed (which, of course, we dare not do), and of others who will tell us how much others who will tell us how much chapter they can purchase than we can offer. Even during this past week we were informed of clover be-ing purchased for 42 a bushel test than our prices. We happen to know that the above rejected seed was pur-chased at 13 a bushel cheapter than we furnished the final supply for.

We are especially interested in this the open market of the world was equally free to all purchasers, but could be taken advantage of in full only by such firms as were in financial position to buy for cash early in the season, and in large quantities.

Mark these fundamental conditions and these themeneral conditions of good business-BUYING AT THE RIGHT TIME-BUYING F(LARGE QUANTITIES-BUYING FOR CASH and HANDING DO CASH HANDLING IN CARLOAD and HANDLING IN CARLOAD QUANTUTUES. Early in the season, or at "The Right Time," we had one of our suppliers write to all our customers of last year and ask them and to give an estimate of the seed want-ed. He got responses from only two or three people, so we failed in our first effort to get an early option on seeds and lost an opportunity for

taking an option on a large quantity. The wholesale trade in clover seeds 10 a perfectly legitimate business but extra margin must be put on to

cover the expenses of distribution. If we object to that extra charge we only need buy it on the same market as the wholesaler and on equal terms with him, or get from the grower even which aim, or get from the grower even earlier. We cannot expect these wholesalers to sell their supply of seed to the retailer and then furnish us seeds at a price sufficiently low for us to underbid the local dealer and make margin enough to the central office to keep its expenses paid up. We would like to emphasize the fact that although we could not buy at

fact that although we could not buy at the right time, nor negotiate a big purchase, nor close a big transaction with spot cash, still we are selling thoumnds of dollars worth of seeds of equal quality and better price de-livered to the farmer while retaining a good margin for the central office. One iliastration and I close

One liastration and I close. A sample of aisike reached this of-fice for sale, not being graded at the time, it was offered to the wholesale trade, which is fitted to clean and grade such seed. The offer was \$8 a bushel. A sample of this seed was alterwades reported on from Ottawa and was equal to what the same trade was selling to the farmer at \$12 a bushel. In this case the dealer's share was to be \$4, the grower's eight and the sower was to pay \$12. and the sover was to pay \$12. Out of this transaction at least \$3 should have been saved for each bushel if it had been handled through co-oper-ation.—Anson Groh, Manager, United Farmers' Co-operative Co., Ltd.

The New Boards of Agriculture

THE Ontario Department of Agri-culture has published the rules and regulations governing the establishment of Boards of Agriculture, with which it is proposed to supplement the work that has been carried on by Farmers' Institutes, Women's Institutes, and other of educational activity. It has of educational activity. It has been provided that the board of directors shall consist of two representatives from each Farmers' Club and Junior Farmers' Association, one from each agricultural society, and one repre-sentative from each township. These sentative from each township. These representatives shall all be active farmers. The board also includes the district representative and three representatives from the District Wommer's Institute, one being the dis-trict secretary and the others being elected at the district annual meet-

ing. The activities of the board, how ver, are not confined to Farmers Women's Institutes. Cooperand tive societies, granges and other agri-cultural organizations, as well as boards of trade and publicity associations, are to be considered when directors are chosen. An executive committee, composed of a president, vice-president, and two to four directors, are elected by the board of directors from among themselves at their first meeting.

Each board is required to hold in addition to Hs annual meeting, at least four meetings or short courses each year, at which papers and ad-dresses will be given, and frea dis-cussion encouraged on topics relating to agriculture. The boards, operation with the Women's boards, in co Ineti. tute, will also be encouraged to plan annual rally, the department an dertaking to furnish a speaker to ad-dress the gathering. The department dress the gathering. The department is prepared to make a cash grant of \$25 to each board that receives a similar amount from the municipal county council, and an additional sum county council, and an additional sum equal to such all the amount reac-ceived in muncical and county remains above 43%. In so case, however, is more than 550 granted in any one year. The isritiony covered by a beard, shall approximate a provincial indicates of interference. electoral district



Few sa Mil nier a We ha for 14 without new on is very per we The co profer way th overal maily a has bee extracti average pounds sure pp milking less the milker cows in which The ma We boi weekly, taste of water s milker have on for the are ver in use. milking (1 the mil others a In Prof. they for made a days pre

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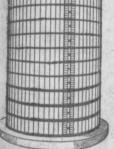
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FARM AND DAIRY.



Glemhurst White Ruth 2nd (41858)

Glenhurgt Queen Floss (29886)

Glenhurst Torrs Mayor (43480)

Torrs Cony 3rd (Imp.)

(19)

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Worthy Representatives of Some of Scotland's Choicest Breeding. Few sales of Ayrahires in Canada will attract as much attention as that of James Benning at Willamatown, Ont., on April 19, when his entire herd of national reputation will be offered at public auction. The spiendid type of this herd is indicated by the animals shown above.

IT IS EASY

The Milker Endorsed

Milks 32 Cows in 35 Minutes---G. & F. Thompson, Vaudreuil Co., Que.

Outs 22 Cove in 33 Minutes.-C, 6 Out Bringire milling machine, we can decidely say, does the work to perfection. No the work to perfection. No the we have been using our machine for 14 months, and would not do without it, even if we had to huy a now one yearly. The cost of operating is very small: five quarts of gasoline per week, to milk 30 cover kvice daily. The cover size their milk readily and prefer the machine, judgeting by the prefer the machine, judging by the way they stand, as we now have no kickers; before we bought the milker veveral were very hard to manage and many a gallon of milk was lost. There has been no damage to our cows by extracting the milk this way, and our average per cow has gone up three pounds daily on last year, which is a sure proof that cll is well.

Another item in favor of machine Another item in favor of machine miking is the time saved, with us no-less than three hours daily does this miker axe us. We now handle 32 cows in 35 minutes, with four units, which we consider very satisfactory. The machin, is very easily kept clean. We hold all the rubber faitures once weekly, which removes all dirt and taste of rubber, then put in lime and water solution.

Any party who buys an Empire milker and is dissatisfied shouldn't have one, and it ought to be a pleasure for the company to take it away. We are very thankful such a machine is in use, and now, instead of a drudgery, milliding is a pleasure.

For a Classy Trade

(Continued from page 4.) Continued from page 4.) the milker than last year by hand, others not quite so well. This point cannot be determined in a few months. In Prof. Leach's 17 day trial at Gueiph, they found that the 10 cow's on trial made a gain of 206 Bes over the 17 days previous by hand milking.

We are decided that the Omega is clean milker. We do very fittle ripping. Of course, there are odd stripping. Stripping. Or course, there are out cover that, for some reason, may not clean out properly, but very seldom. We can produce a much more sanitary wilk. Our bacterial count has been much lower than by hand miking, acmuch lower than by hand milking, acc-counted for by the complete use of cellubid tubes, no top lid to open and allow anything to enter, and the way-the teat cups are always held up in position; even if by accident they about leave hold of the teats they are about leave hold of the teats they are about leave hold of the teats they are always kept up in position, and never drop where air or filth can be sucked in. The machine has quite come up to

our expectations, particularly as a habor saver. It needs a fairly compet-ent man in charge to get proper re-sults, and with one good man and an assistant, we can get more satisfactory milking than by the average hand milker today. milker to-day.

milker today. We can conscientiously recommend the use of the milking machine to any-one milking over 15 cover, but would also recommend some investigation of the different kinds, as the difference in price between a good and an inferior one can soon be made up in our daily operations with a herd of cows.

Quick Miking Increases Yield "A "Untervised in milking is high indication of the second in the second there is also an increased yield," says there is also an increased yield, "says there is also an increased yield, "says there is also an increased yield," says there is also an increased yield, "says there is also an increased yield, "says there is also an increased yield," says there is also an increased yield, "says there is also an increased yield, and there is also an increased yield, and the order of all the second in the second the second is a smaller yield, and the order of all the second is a second of the second in the second is a second of the the second is a second of the second the second of the the secon Quick Milking Increases Yield

to milk any one cow will, of course, vary with the quantity of milk and the ease with which the cow can be milked.

Feeding at "Rosebank"

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WITH LOUDEN EQUIPMENT

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FARM AND DAIRY

AND RURAL HOME PUBLISHED EVERY THURSDAY

enter 47

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OUR GUARANTEE

OUR OUARANCES We are the the twey advertises in this issues for this products of the second second

The Rural Publishing Company, Ltd. PETERBORO, ONT.

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

The Milking Machine

THE mechanical milker is a success. It has come to stay. Its use will increase until milking machines are as common on dairy

farms as are self binders on the prairies of the West, or hay mowers in the East. The mistakes of early manufacturers have been largely corrected, until at the present time there are several standard makes of mechanical milkers on the market, and all capable of giving good service. The best of these machines are advertised in this issue of Farm and Dairy. The experiences of practical dairymen in their use are given on pages three and four this week. The writers of these betters have different machines, but all apparently are getting satisfaction. Some of these machines have been in use three years, which should be long enough to test the merits of any machine.

Now comes the question, who should buy? Difficult labor conditions this year have widened the field for the milker, and there is a place for it in the herd of fifteen cows or over. In fast, somo dairymen with only a dozen cows have installed mechanical milkers, and consider them profitab.c. There are exceptions, however. The man with a large family of growing boys and girls to help him, does not need to buy a machine for the milking. Then there is the farmer who is a dairyman only on the side, milking a few cows for a few months of the year. He probably could not afford the investment. All other dairy farmers have a place for the machine.

It was once believed that the certified milkman would always have to specialize on hand-drawn milk, but it will be noted that Mr. Parsons, of Ottawa, Ont., and Shannon Bros., of Cloverdale, B. C., whose experiences are given in this issue, are both certified milkmen. The old idea, once so common, that it was a grave risk to install a machine in a pure bred herd, has long since been dissipated, and when such men as R. R. Ness,

FARM AND DAIRY.

R. M. Holtby, and W. E. Thompson, are not afraid to use the milker in their pure bred herds, why should the rest of us worry? Of course there are some men who couldn't run wheelbarrows and keep them in running order. These men will not succeed with the milking machine. But the great majority of dairy farmers have enough mechanical ability to run any of the standard makes successfully.

Treating Seed Grain for Smut VER \$5,000,000 worth of damage was done by smut to the cereal crops of Ontario alone last year. The loss in other provinces was also large. It is safe to say that the total loss for the Dominion was greater than the total amount contributed to the Patriotic Fund for the year, and it was a loss that could have been almost entirely prevented. Some of the causes of loss to the farmer are beyond his con-

trol, but this is fortunately not the case with smut. The most destructive forms, namely, stinking smut of wheat, loose smut of oats, and covered smut of barley, readily yield to the formalin treatment.

The necessity of keeping up production this year should urge us to leave ho possibility for the loss of such a large percentage of our crop as was the case in 1915. The growing scarcity of labor, together with other factors, may tend to keep production below that of last year, but these can to a considerable extent be offset by a thorough treatment of our seed grain with formalin, thus preventing a repetition of smut losses Keeping up the food supply of the Empire is one of the necessary conditions to the successful prosecution of the war, and anything that reduces the supply of food stuffs is working in the interests of our enemies. We are careful to intern any supporters of the enemies whom we find in our midst, but what more active supporters could they have than the fungus and insect pests that work in our fields, reducing our yields of foodstuffs? Of all these pests, smut is the most destructive and the easiest to control.

The cost of the formalin treatment is about one cent per bushel. The expenditure of that one cent may mean a saving of ten bushels in next year's crop. It is plain that not one bushel of seed should be sown this spring without being first thoroughly treated to destroy smut spores.

C. C. James for Deputy Minister THE transfer of the archives, patents and copy-

right, and guaranteed branches from the

Dominion Department of Agriculture to another department, which also involves the transfer of the present Deputy Minister of Agriculture, Mr. G. F. O'Halloran, will meet the approval of those who believe that the agricultural interests of Canada are great enough to warrant the full attention of the Cabinet Department. Farm and Dairy has long advocated the change that is now being made, and has frequently urged that the Deputy Minister should be first of all an agriculturist. In this we have not sought to disparage the work of Mr. O'Halloran, whose legal and executive ability is beyond question. We have simply felt that the position should be held by a man having a more intimate knowledge of agriculture, and who was in closer touch with the conditions that surround the Canadian farmer.

The appointment of Dr. C. C. James as the new Deputy Minister is so logical as to scarcely call for comment. We venture to state that with the majority of farmers in Canada the name of Dr. James would be the first to suggest itself in connection with the appointment. No man in Canada has a wider experience or a more thorough grasp of Canadian agricultural problems, and his many qualifications make him obviously the first choice for the position.

April 6, 1916.

Western Crop Prospects

HE phenomenal production of grain in the Prairie Provinces last year was a source of

satisfaction, not only in Canada, but also throughout the Empire. Never before had the necessity of a good crop been so urgent, but never was the need more amply met. The efforts put forth by the Western farmers were almost superhuman, and a combination of circumstances including a good rainfall, resulted in the production of the biggest wheat crop in the history of the West

Just how far favorable circumstances contributed to that production is now becoming apparent. The crop for the previous year was light, with the result that the farmers had ample time to prepare a large acreage for 1915. Then the heavy crop of 1915 required the farmer's full time last fall to get it safely harvested, threshed and marketed, with the result that ample preparation was not made for the 1916 crop. The total acreage prepared for 1915 was 13,372,615, while that prepared for 1916 is only 8,038,051 acres. It is thus evident that, in the production of the bumper crop of last year, reserve effort for 1914 was used up, and large borrowings were made from effort that should have gone to the production of the 1916 crop.

It is becoming clear that under no possible combination of circumstances can the yields of last year be repeated. It can hardly be expected that the weather, which is still the controlling factor in crop production, can be more favorable than it was last year. Instead, the chances are that it will be less favorable. With a reduction of over 5,000,000 acres in the prepared acreage, and with a labor problem more acute than ever, we should prepare ourselves for a considerable falling off in the crop yield of Western Canada in 1916, as compared with last year.

The Value of Dairy Records

T HE man who is certain of his ability to "pick a winner," in buying dairy cows for his herd, frequently picks a boarder. The troublesome feature of the transaction is that unless he kekeps dairy records he may continue in his belief, sublimely unconscious of the fact that it is losing him money every day he continues to milk his unprofitable cows. One of the United States Universities recently staged an experiment which completely upset the judgment of a goodly number of these sure judges. Several pure-bred Jersey cows were selected from the college herd. To all outward appearances they were of equal-merit and opinion was divided among those who were asked to select the best cows of the bunch. All seemed agreed that there was little difference in the dairy merit of the cows selected. Fortunately, however, records of this herd had been keys for several years back, and one cow of the lo trequently picked as the best by supposedly competent judges, was one of the poorest cows in the herdy she gave only one-third as much milk as another cow that did not meet with as great favor when judged by external appearances.

A similar demonstration might be arranged from almost any untested dairy herd in Canada, provided sufficient time were given to test the cows before hand. The only oure way to eliminate unprofitable cows is to keep records of the production of each and every cow in the herd. In the majority of herds in this country the cows are now beginning to freshen. Now is the time to start testing, and we would suggest that any of Our Folks who are interested will get much acathemence by writing to Mr. Chas. F. Whitley of the Dairy Division, Ottawa. Next to the distribution of pure-bred dairy sires, the work being conducted under Mr. Whitley's supervision is doing more than any other one factor to improve the grade herds of the Dominion.

Retin "Or Hving cound and i

E. P.

FARM AND DAIRY.

Activities of District Representatives

L AST year one of our club mem-bers tried to produce his own seed of White Cap Yellow Dent L bers tried to produce his own seed of White Cap Yellow Dent corn. At a recent meeting he showed these grasses the results of a gormina-tion test of this seed which averaged 92 por each strong germination. This brought up a new discussion on the advantages of test every ser of corn heftor planting in order that they were going to lest every ser of corn heftor planting in order that they were going to lest every ser of corn heftor planting in order that they were going to lest every failed of her of the variety test we placed int year down White Cap deby ordered int year down that in our test. On Wednead the list in our test. On Wednead the list in our test. Association dended to proving a do of New Hummer's poistors a cot of New Hummer's poistors a cot of New Hummer's test of the test of the test of New Hummer's test of the test of the test of New Hummer's test of the test of the test of New Hummer's test of the test of the test of New Hummer's test of the test of the test of New Hummer's test of the test of the test of the test of New Hummer's test of the test of test of test of test of the test of tes

Association decided to order a car or New Brunswick potatoes. Choice cooling potatoes will be laid down at Hagersville at \$1.90 per bag, (90 lbs.) and Trish Cobbler seed potatoes at and Trian Cobbler seed polatoes at 83.10 a bag. This car comes with the broadent kind of a guarantee, and will be financed by the bank. Other sup-plies will be procured through the Association in due season.—Geo. L. Woltz, Haldimand Co.

Oxford Milk Producers Set Prices. "At the meeting of the Executive of the Milk Producers' Association, held in the office on Saturday, prices were arranged for the next six months and submitted to the City Dairy offiand submitted to the Oity Dairy offi-cons. The prices set were, \$1.60 for April and \$1.40 for the next five months, which means a rise of six costs per hundred pounds over last year's prices, to which the men be-laved they were entitled on account flowed they were entitled on account of the increased cost of the produc-tion of milt due to the scarcity of labor. I have just learned from the scretary the morning. that the prices

labor. I have just learned from the secretary this morning, that the prices had been accepted, and are the prices had been accepted, and are screening to the City Daky Compared and a result of turning down an or-der of 135 beninhels of poor down parts of our bank of the screening of the er' Glubs, in favor of 400 binhels of No. 1 seed, the same cith placed an order for 60 binhels of Estra No. 1 Seed Oorn at \$3 more public." G. R. Green.

Grey Co. Farmers Installing Electric, In accordance with a request re-ceived from Engineer Purcell of the Hydro Commission, we spent one-half day with him at Thos. Mercer's farm day with him at Thes. Mercer's form for she purpose of planning for the in-stallation of electric power. Mr. Mer-cer intends to install a 10 hap, motor for rolling and grinding grain, root pupping, silo filling, etc. He is also installing a one or two hap, motor for pumping and remains graning machinery is a work shop. A small motor will also be used for observing, running an experiment, Mr. Methies and cream separator. Mr. Methies and will be the first in Grey to maken will be the first in the for formal will be the first in the for formal will be the first in Grey to maken will be the first in these for formates for Hydro power?---H. Q. Duff.

Village Labor for Dundas Co.

Villags Labor for Dundas Co. "I am arranging to cooperate with the reserved frome of the Villages in the county in getling together a list of county in getling together as list of county in getling together as list the second of the second second second and who possibly weady coupset an author of such young men in all the villages in the county, and I think by patting the question to them fail-ify that they would see thick their duty at the present time is either to depic on the second second second second vances the meed for a supply of help on the farmers of Simose Respond.

Retired Farmers of Simcoe Respond-

ing. "Our appeal to the retired farmers living in towas and visiages in the county is being pashed vigorously, and is proving that there are a great

CC Kepresentatives
The section of work, which is a the base of the section of work, which is a the base of the section of the secti

Cooperative Buying in Welland.

Gosperative Buying in Weiland. "The Bildgeney Farmers' Glob has been doing considerable cooperative buying, shaving orderable cooperative of bran and shoris, two es awands finee posts, a quantity of wire fouring and over tweire tons of sugar. They are getting this sugar sit the rate of \$6.86 a cwt, and on a quantity of 12 dons they are effecting asswing of over \$400, comparing their prices with the reguine local retail prices. This price of \$6.66 includes I per cent. price of \$6.66 includes 1 per cent, commission-to cover cost of handling. Each member is rejuired to give his note for \$10 payable on demmad. This is signed by the president and deposit-ed in the local bank. They are con-templating buying seed core, grocer-ies, of and binder twine through the club. club

The first executive meeting of the Holstein Breeders' Association was held in this office on March 14th. We framed and adopted a constitution, which I am forwarding to you. It is which i am forwarding to you. It is the aim of the association to encour-age the weighing and testing of mila among all Holstein herds as a means toward raising the standard, so that later on when consignment sales will later on when consignment sales will become a feature of their work they will be in a better condition to put first class stock in the sale. The members of the Association are furn-ishing the Secretary with a list of their surplus stock, so that Inter-change among breeders of the Branch will be fredilated. It was also decided to hold a plend during the domine to hold a picnic during the doming summer for the members of this As-sociation, not only for the social bene-fits which would accrae, but for the purpose of bringing before the public the existence of the Association. We are fortunate, indeed, in having a good live executive at the head of affairs in this organization and the outlook for its success is very promising."-E. K. Hampson

Brant Co. Shorthorn Breeders Meet.

Braint Co. Shorthorn Breeders Mest. "On Tuesday the Shorthorn Breed-end Club Jeld their annual meeting in our Braatford office, about twenty of the amenbers being present. This proved to be a very interesting meet-ing. The constitution of their Club was revised and they had much itvely discussion as to the best way to ad-vertise thair stock. The following are some of the iddas suggested: Adver-tising through the papers in the West, oficulating Western papers with state-ment as to stock for easis in the county. It was also urged that every breeder-should suggif the accorder is of all these solution with a complete list of all these stock the has for sale. It was also moved that the Association aim to bold as alse within the soxt 12 monds." —R. Solwyter. R. Schuvier.

Victoria Farmers Cow Testing. "Mr. Orvis has been in Bobcaygeon



1 st - If you are still using some gravity or setting process of creaming-

BECAUSE your cows have likely freshened now and your supply of milk is greater.

BECAUSE your spring work requires every minute of your time and a good cream separator will be a great time and labor saver.

BECAUSE your young calves will thrive best with warm, sweet separator skim-milk

BECAUSE with your increased milk flow your greater waste of cream, without a good cream separator, must run into more money than you can afford to lose.

2nd-If you have a very old De Laval or an inferior separator whether new or old-

BECAUSE the losses of the poor separator from incomplete skim-ming, and the tainted product of the hard-to-clean and unsanitary sep-arator mean most when your volume of milk is the greatest.

BECAUSE of the ample and "more than advertised" capacity of the De Laval, you can separate more quickly and save time when time means most to you.





BECAUSE an Improved De Laval Cream Separator is so much simpler and more easily handled and cared for than any other, and you can't afford to waste time these busy days fussing with an inferior or half worn-out machine.

BECAUSE the De Laval Separator of today is just as superior to other separators as other separators are to gravity setting.

Let the De Laval start saving cream for you right now. See the nearest De Laval agent at once, or if you do not know him, write us direct for any desired information.

DE LAVAL DAIRY SUPPLY CO., LIMITED MONTREAL PETERBORO WINNIPEG VANCOUVER 50,000 BRANCHES AND LOCAL AGENCIES THE WORLD OVER

and vicinity in connection with cow testing work. Since organization of the Holstein Breeders' Club, the in-terest in cow testing has gone shead by leaps and bounds. The Dairy and Cold Storage Commissioner has taken oharge of this work for us, and the testing will be done by one of their men."-iA. A. Knight.

New Holstein Herd in Dufferin.

New Holstein Herd in Dufferin. "I have just recoived word that one of our leading farmers has made a pur-chase of a foundation herd of hel-steina. These are exceptionally due animals, and the selection was made from the herd of Mr. Oaler, of Broate, while we are not particularly in-presed with seeing our farmers take up the question of Biofartena, yet, we are pleased to report that there is be-ting a deeper interest taken is the ques-tion be det to lend considerable as-sideance along this line."-H. A. Dor-ranee.

Scarcity of Labor in Middlesey.

Bearotty of Labor in modesex. "We advected of GM., Farrell in the London papers registring a supply of farm holp. Yesterday attemoon we had fifty darmers visit the office look-ing for farm indorers. Mr. Parrell was able to supply about thirty of them with men. The indor that Mr.

Farrell is supplying comes chiefly from sround Port Huron, and most of them have had some experience at farm work. The wages offered by the farm are ranges from \$20 to \$36, ac-cording to the experience the man had."---R. A. Finn.

In the past we have been educat-field of boys and sending them to the field of the past we have been educat-be truth that agriculture, athors be truth that agriculture athors be truth that agriculture athors be the senders in the senders in the bear leaders in the properation for the benefit of pro-paration of the bear leaders in the senders and consumer. Thereby we will one for the the senders of the bear athors at the sender of the senders athors at the sender of the senders athor athors at the sender athors at the senders at the senders athors at the senders at the senders athors at the senders at the sender

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TALF the world is on the wrong scent in the pursuit of happiness. They think it consists in having and getting and being served by others. It consis giving and in serving others .- Henry Drummond. ------

When the Sap Runs (Continued from last week.)

PERRY came back next, from two the sap in Genevie's biggest lard pails. blocks away. Father met him No single detail had been forgotten.

Tell Mother," he panted, "not to "Tell Mother," he panted, "not to use any gas even if the electricity gives out. Some of the fixtures work hard and she mightn't turn 'em way

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hard and she mightn' turn 'ou way off. Just remembered it. Use can-dles-top shelf of china closet." Again hey saw him returning. "Don't fall getting those candles down. If 1 only had time—" He dashed past Father in the doerway and got them down himself.

"They're dear children, Father," Mother said. "They-they like us. I Mother said. "They-they like us. J guess you better kiss me, Father, --I do' know but I'm going to miss 'em." He kissed her-that was never hard for Father. But he had no notion of

letting her miss the children. Already he was preparing for the business of the Big Idea. There was no time, no time at all to be wasted. "Ain't 1 got my overalls here, Mother? Somewheres upstairs?

You'd never a thrown 'em away."

"They're hanging on their shed nail at home," Mother answered quietly. at home," Mother answered quetty. "T went out there and," rubbed my check against 'em 'most the last thing. They did look so's if you would put 'em on that hight to milk in! One o' wy kitchen, noo. Father, don't you believe kitchen, too. Father, don't you believe we'd feel more at home up yonder in our aprons an' overalls than what we would in white robes?

"There, Mother, there,--I only just happened to think 'twould seem kind o' more homelike--that is--I mean-" "Twould," agreed Mother promptly. "We'll wear 'em. Perry's got a pair 'e'll wear 'em. Perry's got a pair Genevie has got a-plenty aprons.

You wait. In the "children's" back yard grew a single tree. That tree was a sugar maple, and Father was going to tap it. That was his beautiful Big Idea. To tap it in two places and draw off

No single detail had been forgotten. Father and Mother were going to have sugaring-off-that was to be the glorious finis.

glorious_finis. "I goi some pieces o' wood all picked out for the splies," proceeded Father excitedly. "But i dint't dare whill 'eun out, for fast the thin. It wort' wind of string the thin. It wort' thing a setting out your kettles an' things. Mother." things, Mother things, Mother." They worked briskly, Mother sing-ing in the kitchen and Father in the little ehop-room, whistling. The two happy sounds met halfway and made a single sweet tune. The kettle that a single sweet tune. The kettle that Mother rummaged out was big and deep like—a little like—one at home. It would do, she thought; but at the ht would do, she thought, but it mem-back of her mind was always the mem-ory of the great sap kettle swung over the fire in the old sugar house on the

farm. Other memories were in the back of Mother's mind-of the sugaring off parties of young people the children used to invite, and the gay-ety and fun and joy of it all. Father dodging about a ety and fun and joy of it all. Pether dodging about as apry small. Pether any boy therein a more a boyes a light the start of the start moving light the start of the start of the start light the start of the start of the start Pather, in their own of the start of the oft do are start of the start of the

"Ready! Come on, Mother. You got to see me do it," called Father jubilantly. They went out together got to see me do it, caned Father jubilantly. They went out together to the sugar orchard of one tree in the little city back yard. Father tapped and inserted his "spiles" and hung his pails, still under the pleasant spell of excitement and illusio

"It's exactly the right kind o' wea "it's exactly the right kind o' wea-ther for sap to run-it's got all day. Mother. Ought to be a lot to-morrow morning. We'll give it most up to noon, then we'll boil her down! You going to make me some fritters for supper to-morrow to eait our maple syrup on?" He was laughing down

from his big height to her lesser one In another minute he would be stoop-ing and kissing her; she knew the ing and kissing her, and knew the signs. Right here in the children's back yard with all the neighbors-"Til make 'em-Til make 'em, Father," she said nervously. Mother

Till make Father," sho wanted that kiss, but if it could be de layed long enough to-

"Not here, Father! Not out here in broad daylight! Til make two rules o' fritters if you'll just wait for us to get under cover..."

"Mother! Mary Euphemia Baxter! --you ashamed o' me?" he demanded sternly. A stern father with those twinkles behind his glasses! But Mother's soft old heart misgave hear. Bather --

her-Father was worth so much more than all the neighbors under the sun! "Now do it quick!" she breathed. They might all be making beds or something, and not see at all, but if they did, let 'em!

"Bless your heart, Mary Euphenia Baxter!" laughed Father tenderly. "Think I'd really do it with you feel-ing like that? Now me-I'd as hef as lief ing nice that: Now me-u as net kiss my own wife in the middle of Harrison Square! Look on, every-body,-she's been mine fifty years. I guess f've got a right!" The rest of the day and all the pred-

ous evening the pleasant spell was over them. They made believe un-dauntedly. Every little while they made trips to the children's sugar orchard and peered into Genevie's pails. They bustled about the house, doing They puscled about the noise, doing home things—covering the carpets with newspapers where the sun shone in, setting the chairs, back properly against the wall, playing their listle play. It was beautiful to "run things"

play. It was beautiful to "run things" equat, laughed Mother. It was beau-tiful, Father declared, to ase Mother run things. They had a beautiful day. Up to almost noon next day the sap dribbled into Genevica lard pulls. Then Father took them down and car-ried them in to Mother. She had her ried them in to mother. She had her big kettle all ready, but at one glance into the pails she slid it out of sight and substituted the little nappy she had planned to make her fritters in. had planned to make her return apply slip had planned to make her fritters in Father poured his say into it gavin, intropidity. The seet of the game was over, her how the her slip apply backs of both their minds. Fathers for Mother, Mother for Fathers, they play-ed the little game. "This is like old times!" Father cried, rubbing his paims together. "Bolling down the sap-listen to it bubble, Mother! Great, ian't H" "Great!" echoed Mother.

Great!" echoed Mother.

"Greast "echoed Mother. "Guess you'll have to have those flapjacks ready right on the dot-min-uke the syrue blickens up a bit." "The vary minute, Father." Very carefully Mother watched her little "kottle," stirring and testing and test-ing. As the contents boiled away, a little crease of anxiety deepened be

April 6, 1916.



S INCE running our last serial, "When to Lock the Stable," 2 we have been looking for a story which we thought would interest Our Folks, and believe we have found it at last in "God's Country — and the Wo-man," by James Oliver Curwood. This is a story of the North Woods-of life in the land where the Hudson Bay Company reigns supreme. Mr. Curwood is an author who literally lives what he writes. One-half of each year he spends exploring some new land and it is not until snow and ice make travelling impossible, that he returns to his nome on Lake Michigan to write the stories of the great North Woods. "God's Country and the Woman," the strange promise that man," the strange promise that Philip Weynam was called upon to make by a girl he met far off in "God's Country," and the sur-prising events that came out of it, make the story one of the really notable tales of life on the upiny frontier that is now left. The first installment of this fas-instant she will anomer in mett cinating tale will appear in next week's issue of Farm and Dairy. Watch for it.

ween her brows. There seemed so little now. And now-Mother was a prey to alarms. Suppose it all boiled away! With resolute old hands she removed the sap from the fire on the first approach to thickness and hastily tossed together her batter for Father's was midway betwee and supper when she set out the little feast. She hummed clearly as she worked and Father caught up the tune.

"Supper's ready!" she announced briskiy, a plate of steaming golden disks in her hand. "Nice an' early, isn't it? But I knew your mouth wea watering. Here, you sit right down an' begin."

"Where's yours?" demanded Father. "You got to come too." "Of course I'm coming, but you be-gin while they're hot. Here's enough sap—syrup to begin on." It was all in while they're hot. Here's enough ap—syrup to begin on." It was all here was. Mother's honest soul hrank from the guibble, but it had to e. She rattled about in the kitchen, there was. be. She ratified about in the kitchen, bronght in freeh cakes to Pather, kiss-ed his hald spot as she set them before him. Her own plate abe concealed defly behind Genevie's sugar bowl and spoon boller. "Aren't we having a good time, Fa-ther?" she chattered. "Great-great! These flapiscks melt in my month-you always were a mas-ter hand at 'em, Mother. That's the



The old Dunkin Homestead, one of the many beautiful farm homes in Oxford Co., Ont. Now owned by E. Pick & Sons.

April (

only trou That w with the

lisappea at all-ju ther deca cakes, a from her fought ti realized t believe, Father w So abe did not home. Th ecause o

had stolen to take Fr But it w. spiles that tree caug the kit of Mother ther and chief. Ve the "misci the soul and Mothe emotions.

"Perry, boiling do old times tree, when died and e They've I The big

blood of speech. Ŧ through th the valiant was a ga memories Father and each other Things cle saw Fathe

"Perry." tell you the to do som was a wome first what in upon the We've a

gavly. good it is to again, but i gorgeous id way home. time! Wha never to rea go home to We've off! in time -we ute. Andelse perfect her eager e you suppose could invite my friends? of a sugari

As indeed time that fol host and ho the old plac the peace of dren watches other's wet

"Be it ev Mother, and ing Father's K up: ""The

"We're hay ther!" for t ther!" for t lieve, not game. "And bort off, F first kine me, radiant, to h coming back Father! Ger

know if they Her langh ther's laugh they langhed

only trouble with your cakes-they disanghed Disappearlin cases ing day frankasyving anyway, and may-appear. Disappearlin cases." He be-" langhed hiariousiy at himself. A happy vista opennd before Father That was the trouble, same trouble, and Mother. Who was growing old with the syrup, Mother thought saily. It was san time again in their veins.

with one strup, Mother thought sadly. Jiamposating syrup. It want syrup at all-first sag. She had not dared to at all-first sag. She had not dared to ther desant the first surprise of the cakes, a fibres it with a surprise of the fought there. For suddenly Mother realized that Father, too, was making believe,-sde was not the oily one. Pather was emacking his line!

bellers,-ethe was not the only one. Father was mancking his lips! Bo absorbed were the two old peo-ple in their losing little game that they did not know the children had come home. They had taken an earlier train because of their disquic or mind, and had stolen in by way of the back yard to take Father and Mother by surprise. Dut it was Father and Mother who had surprised them. The toltitle But it was rather and atomer who had surprised them. The telftale splies that were still driven into the tree caught Perry's eye at once, and in the kitchen Genevie read the story In the kincases tenevie read the story of Mother" little litter of dishes. Fa-ther and Mother had been up to mis-chief. Very enddenly the pathose of the "mischief" struck into their souls -the souls of the "children" of Faiher and Mother were susceptible to tender emotions. emotione

"Perry, do you see-they've been boiling down eap to make it seem like old times! Just that one little old tree, when at home-" The whisper

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mas the tree, when at home-" The whisper died and came again to life in his our. "They're been homesck, Perry of the The big son, fiesh of their, old fiesh, blood of their blood, did not venture speech. He only noded slovity. In through the half-open door he watched be whise Hild assess and on the Lorequin the half-open door he watched the valiant little game going on. It was a game-he knew. The same memories of old joys and frolics that Father and Mother had hidden from each other came back to this big son. Taiags cleared in his brain, and he saw Fathers wistful viewpoint and little homesick Mother's.

"Perry." Genevie whispered on, "I tell you they're homesick! We've got to do something." And because she to do something." was a woman it was Genevie who knew first what they could do. She burst

in upon the unsuspecting old pair. "We've got home!" she announced gayly. "In a minute I'll tell you how exviy. "In a minute 181 tell you how he the easiest path, the most pleas-good it is to see you during old dears and, but it is the one that He calls us again, but first there's something size to follow. That can't wail! I've had the most Another blessed thought is that in correcous idea-came to me on-on the some marrielessed thought is always way home. Father, Mother, it's as phones us what path we should choose, time! What were we all thinking of, This is no, no matter how many are power to remember? We've all go to the dear.

others wet syes. "Be R ever so humble'." hummed Mother, and somewhere within hear-ing Futher's militant old whistle bolk R up." "There's no place like Home". "We're having a beautiful time, Fa-

"Thanksgiving anyway, and may



Travel Thoughts --- No. 26

Guidance.

"F^{OR} this God is our God for ever and ever: He will be our guide even unto death." Psalm 48:14.

From my tent down in the valley From my cent down in the valley, though they were far a way, I could hear them distinctly, and see them clearly, those radiant, misty, Yosemite Falls: Once I saw on them the glory of the afternoon rainbow. One I started out to go to the foot of them. First came a beaten road, then a path, getting narrower and narrower, rising getting narrower and narrower, rising higher and higher. Though I thought, on leaving camp, I had understood and could follow the very explicit di-rections given. I had gread difficulty in finding the path, and far greater in keeping to it. It wound in and out through the dense growth, and around through the dense growth, and around great boulders. Sometimes there was preat boulders. Sometames there was nothing to do but climb the last. Again and again I thought I had lost it, but and sgain I thought I had lost it, but again and again I would know I was in the right way. Perhaps it would be a branch broken off; perhaps it would be a small pills of stones, evidently man-put; it might be the impress of a foot in a tiny patch of sand; again it would be a idege of rock; that would be the only available means of elimb-ing. ing

ing. So again and again on that long, stremuous climb, I knew I was on the right trail. Then suddenly I came out at the foot of those wonderful falls, he beauty of which more than repatd for all the uncertainty and exertion. That more inst it came to me, with

That morning it came to me with peculiar, impressive, God-given power, that in our lives in some marvellous way, we can always know when we are on the right path. It may not always be the easiest path, the most pleas-ant, but it is the one that He calls us

never to remember? We've all got to the choices, nor how continuity and go home to he did place and succe-puszling they may neem. With and they been all they to hese anits. We when we have chosen actight it the. And-and they to hese anits. We when we have chosen actight it the active system seeking Mohler, we solve system seeking Mohler, we could invite down a few of Perry's and or infinite from the set of the set of the set of the could invite down a few of Perry's and or a sugaring off. We could show but continue joyfully been chosen of a sugaring off. We could show but continue joyfully been chosen to the sade of the set of the set of the set of the set of the settled-do you suppose. Mohler, we could invite down a few of Perry's and of a sugaring off. We could show but continue joyfully been chosen the set of As indeed they did in the beautiful As indeed they did in the beautiful choice has to be made. "He is corri-time that followed. Father and Mother, failures, sorrows and trials, unto the old place, straight and young in L H N. The peace of their old souis. The edit-other's wet syse. "The the corre-tion of the system and the source of the system and the second them, subject to be made. The source other's wet syse. "The the second the system and the second other's wet syse.

Horticultural Suggestions

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An Autumn Tinted Roon

ECAUSE autumn lingers in our B memories and because there is no lovlier time of year than the autumn, the scheme of decoration for House Number Five will be in autumn tints. Late last September the writer

Iouse Number Pive will be in autumn tints. Late last September the writer went for a drive along the bank of the Red River and the glory of that color scheme has abided with her to this day. The basis of it was olive green and, what the artists calls the ight highly, were orange and red, and the highly, were orange and red, and the highly, were orange and red, and the highly were orange and red, and ful beyond belief. As this house is so furnished with windows that cast is the only direc-tion in which it could be faced so as not to have an adundance of sunlight in the living room and dining room it is safe to choose as dark a color as olive green. It should he noted here that olive green is the only green that is warm in tone and that it makes an agreeable foundation for pictures and deperies. The living room and dising room, and the wells funde alise then, and read the solden broom. There warm cream, with the weining in deep droor a rich zolden broom.

m onve green and the ceiling in deep warm cream, with the woodwork and floor a rich golden brown. Being separated by an archway, the dining and living rooms may have rugs of different designs, but they should be in the olive green tone, a shade deeper than the walls, with a border or tiny pattern in brown, gold and reddish thus.

Furnishings in Green and Gold Furnishings in Green and Gold The windows should have inside curtains of cream scrim and over-curtains of gold and green madras, or if preferred the cream curtains can be omitted and the madras used alone. A warm fumed oak dining room suite should be selected for the dining the should be selected for the dining suite should be selected for the dining room, and big red willow chairs in the living room. These chairs can be bought at from five to nine dollars, making them really as inexpensive furniture as one can bury. They should be fitted dull reddish tomes ingit or wange and beside the fireplace there should be a reading lawn in plain brown with a and returns conces, and of the tange bread in knowledge the should be a bread in the should be and the should be bread in the should be and the should be windows, and filed with bright scaled geraniums they would add at least fifty per cent. to the charm of the rooms. The paint used for the walls could be used to paint the boxes. "Doctumity for all offers a plendid make a delightid home for his or her books, by buildings in shelves at either end of the mante, and the lively colors of their bindings will, incidentally, help greatly in the fur-nishing of the room. If the housewile happens, to be possessed of one of

insuing of the room. If the housewife happens to be possessed of one of those old fashioned brass kettles which used to be a part of the kit-chen equipment, let her bring if into the living room and use it as a recep-tacle for grate fuel, or a brass tray in the dining room will be found to have the same decorative value.

Colored Prints For Walls

In pictures, richly colored prints in orange and brick red shades with gold mats and frames should be se-fe_ted, and there are many of these to be had in the quite inexpensive copies

WORKING DRAWINGS, \$2.00. Complete working drawings

for the construction of Farm and Dairy House No. 5, together with complete bill of materials and instructions for building, will be mailed to any address for \$2.00.

Farm Building Dept., Farm and Dairy, Peterboro, Ont. of famous pictures. The hall, wash room and kitchen down stairs should have the same brown woodwork, but soft buff walls

brown woodwork, but soit bun waits instead of the green. The small front room upstairs with the three windows could be furnished effectively in blue and white, by leav-ing the walls uncolored and using a blue rug and blue and white curtains at the window, the wood work being white enamel, of course, A white en-amel bed, a mahogany dresser and a willow arm chair would be sufficient

willow arm chair would be sufficient furniture for this room The other three bedrooms would be pretty finished in the buff like the downstairs rooms, with different col-ored curtains at the windows and different rugs to give the necessary variation

Tation. You will have noticed the stress laid on details in describing this color scheme and perhaps be inclined to think it overdone, but indeed, it would

think it overdone, but indeed, it would be impossible to over-emphasize this point. It is a quite common occur-ence to find rooms which are perfect-ly harmonious, but the room which possesses real charm is a rare jewel indeed and it all hinges on this mafter of introducing just the right contrast-ing notes of color. It can only be done by the person T can only be done by the person those ornaments which see room harmony with the color scheme of her living room, and much-flowered vases and the ugly mugs of the gaudy pictures which her friends have be-stowed upon her from time to time. Better to have the room too bare than Better to have the room too bare than to have it messed up with ornaments which jangle.

The Family Appetite Mrs. H. Lewis, Essex Co., Ont.

PERVERTED tastes in the family with regard to what the family REVERTED tastes in the family with regard to what they like or confort in some homes. What is more disheartening to the hard work-ing wife and mother than to have her husband or children turn away from dishes she has probably spent much time and thought in prepar-ing! In fact in some cases, the cook spends so much time and energy in her efforts to cater the traces in her efforts to cater to the tastes of the family that when she comes to the table herself, she is too tired to eat a square meal.

It is a queer notion that some people have when they are so particular about what they eat. For instance, some men will not cat any sing to vegetables, except potatoes. Nor will they touch fancy dishes, such as salads, pickles, etc. It is very hard to plan meals with any variation when such is the case. The children and house horome national about some men will not eat any kind often become notional about they eat. Mary will not touch too, offen become notional about what they eat. Mary will not touch plain bread and butter without a good deal of coaxing, Johnny dis-dains the least bit of fat meat, Annie turns up her nose when mother wants. her to cat porridge or mother wants. her to cat porridge of and meat, kind of prepared breakfast food, and so forth.

These notions, for in the majority of cases that is all they can be called, should not be allowed to grow on any child, for not only is it trying in the home, but when the child grows up and gets out in the world, where he must take what is set before him or do without, he will experience con-siderable disconfort on many occa-sions. We should not allow the child dren to get the idea that they can't eat nourishing food and then, as they grow older, it will be a pleasure rather than a trial to prepare meals that we are sure will be eaten and enjoyed by all the members of the family. These notions, for in the majority family





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FARM AND DAIRY

Butter Making on the Farm A Few of Our Women Folks Outline Their Methods

Butter Making a Hobby

Mrs. Benjamin Lester, Kings Co., N. B. (First Premium.) attention was attracted to the

M ^Y attention was attracted to the Utility Contest, and I did thia. Anyway, I read all the letters, and thought them good. When butter making experiences were called for, however, that is my hobby, and for the sake of old New Brunswick by the sea, I will try to tell something of my methods

I was reared in the city of St. John I was reared in the city of st. John, coming to live in this county when I was 16 years of age, and here began my first experience in making butter, under the instructions of an aunt. I would like to tell of my experiences would like to tell of my experiences from the first trial to the present time, but that would fill a wasta, basket, as I have made butter by many methods. I began with the shallow pan, later deep setting, and it took some time to convince me that the separator was better than this method, although I milk, separate at once, and the cream cooled down to 55 degrees before adding to the cream gathering can. I find a rich cream means less labor lower churning temperature and less loss in buttermilk. The cream is kept sweet until I have enough gathered to sweet until 1 have enough gathered to fill the churn about one-third. About 20 hours before 1 commence to make butter, the cream is awared to 65 de-grees, and a carefully prepared culture or buttermilk is added. The cream is well stirred and kept at an even tousperature undil it begins to thicken. Then it is cooled to churning tempera-ture, 58 to 54 degrees, according to the season, and held at that over night. I use about two drops of butter coloring to the pound in winter.

After churning for about 30 minutes I expect to have butter about one-half the size of wheat grains. I add a couple of quarts of water some degrees

How to Spend \$300

Several weeks ago we re-quested Our Women Folk to send us their experi-ences in butter making. We received a number of spiendid let-ters on the subject, and in this laste we publish several of them. The others will appear in early issues of Farm and Dalry.

Our Special Farm Improve-Our Special Farm Improve-ment Number comes out about the first of May. Our editor in-forms us that in that issue the menfolk are having an oppor-tunity to express their ideas along the line of improving the men to get ahead of us, so we have a the set of the set of chance also to set of the have a ideas of a somewhat similar na-ture. ture

If you were handed \$300 for the purpose of improving your home, tell us how you would use it. Would it be on a water or lighting system, remodelling the house to make it more con-venient, installing equipment that would save labor, and so Every home has its individual needs. We would like to hear yours. For the best let-ter received on or before Apr. 20th, we will extend the con-tributor's subscription to Farm and Dairy for one year. For all other letters published, we will give a six months' renewal. olve a six months' renewal. Send us your contributions early. Address Household Editor, Farm and Dairy, Peter-boro, Ont.

colder than cream, and continue churn-ins until the granules are like whole wheat. The buttermilk is carefully drawn off, then dranched with cold water to set the granules. The washwhere to set the granules. The wash-ing water is shen put in, using more vater than the amount of butternilk, and at a temperature in accordance with weather conditions. The characteristic it then revolved quickly about 12 it then revolved quickly about 12 in example and the shell of the shell draining off butter, I weigh the shell. and believe an ounce to a pound of butter is a good rule, although it de-pends on the taste of the customer to pends on the taste of the customer to whom we sell. I put the salt in a har sifter, so that he lumps will set into butter, and I salt in the churn. Some salt is alfred over the butter, then the churn is tupped to one side ico allow butter to fall to that side, more salt is added and churn through asope salt is

court is floped to one side to stilew better to fall to that side more east it, a lidel and churn tipped again, doing this several times, or else puttine on lid and revolving slowing a few times. If conventent, I allow the butter to rand an hour or so before working. I always use a lever "U" shaped table butter worke. After securing my peinter, lidles and worker, I put in cold water until ready to work butter, I use genite preasure when working the butter until it has the proper firm-ies and and water handy, in which to dip the parchment paper before wrap-ping printer, ladder the paper before wrap-ping printer.

After many years of experience in butter making, I consider the best market for dairy butter is a private trade, delivering weekly at a set price.

Good Butter From Jersey Milk Mrs. C. R. Fair, Essex Co., Ont.

A^B we have only been married three years, we have not got stocked up to any great extent, to have never milked more than three cows at once; but one is a Jersey and other set.

coes at ease: but one is a deresy and another east deraw, so we get a good aupply of set deraw, so we get a good aupply of set deraw, so we get a good we have a might deraw another another is put through after another at the coeled. It is kept in one as it has coeled. It is kept in our at the much nicer, especially in aurmonther when kept is the or gravity any crean in after Wednesday morning, athough into it again Wednesday might, as the gream is no aweet as when separ-

cream is not so sweet as when separ-ated. The churn is scalded and cooled

cream is not so sweet as when sapar-sted. The churn is scatted ind cooled before the cream is emploid in. Then, the cream is tested. If too warm, the creack is riased with real cold water, 11 too coid, warm, water is used. I never use coloring, as it is not neces-sary with Jersey cows, and I think butter keeps better without H. After the butter is sathered and the buttermilk drawn off, it is waahed through three or four waters, then taken out and asked. After working salt through there on the an he added then if necessary. I have it so the salt three in he fasted, but not so you faste ream he fasted, but not so you faste ream he fasted, but not so you faste ream he fasted sath, and the orwing is sweeted sath, and the origin of the sweeter is the salt through the sweeter is the salt processary. I have it so the salt processary is a sweeter of the salt processary. I have it so the salt processary is a sweeter of the safety out into origin.

I only sell butter in the winter, but the private demands far exceed the supply. Before starting to sell creant supply. Before starting to sell cream in the spring, I pack anough huitter in crocks for supply us through the sum-mer, filling them within about two liches of too, then cover over wich clean white cioth and finish filling arock with sail, which keeps out air and absorbs moisture. I have slways found the builter junt as good in Seo-tember as it was in April.





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Write Plainly



nsually in the spring, after the snow is all some and the cows are on pasture, which gives a good color to the butter. Then out come the milk pails, separator, cream crocks and churn, to be scalded ready to re-ceive the rich milk from healthy cows.

ceive the rich mike from heating cover-our cove are a strain of Jensey. Before milking, we clean off the ud-ders so that no empure substance can got into the milk to taint it. After milking, we strain through a clean cotton eloth, put through our separator soil as the organ area to cond. It is and set the cream away to cool. It is and set the cream away to cool. If M not wrise to yout the warmu cream with the cold cream. It takes about three days amike to make a oburning. Then we set this aske to care, say two days anyway. Something of the days churned my cream too scon, and heat day churned the buttermin of it. When this cream is ready, we could the churn be and noned vertice. And

When the cream is ready, we could the churn, ladie and pound print, and coal with cold water. We churn from 15 miraties to half an hour. Some cows' mBk takes longer to churn than others. After the butter comes, we pour off the buttermilk and put a pall of cold water into the churn to wash. out the buttermilk.

When the butter is ready for salting, e use a large teacup of salt to 10 lbs. of butter. We mix the sait in well with the indie, as otherwise there will be white streaks in the butter. We always put the butter into pound prints. We pack butter this way from the charn all summer, and it keeps the year round, with a brine on ft, and someone is always wanting their

Up-To-Date Method Used

Mrs. C. E. Rogers, Middlesex Co., Ont. N looking over last week's Farm

I N looking over last week's Farm and Dairy, and noticing so many the recent contest. I decided to join the recent contest. I decided to join We have a milk house under our ement bara-bridge (away from stahles) with walls all bastered, good cement floor, cement cooling tank, table and a separator. First the milk is drawen from the cover with a milking machine and

First the milk is drawn from the cows with a milking machine and taken to milk-house to be separated while yet warm. After separating the milk is just put in cooling tank and

cooled till 58 degrees, stirring contin-

cooled thit we use the souring cream maly. The process for first souring cream is to add a cop of buttermilk to about one and one-half gallons of cream. If I haven the buttermilk I put cream up to about 90 degrees and orks continually until cooled, so as no then set in a source then set in a cream up to about so degrees and swa continually until cooled, so as no cream will form on top, then set in a warm place. After my first churning I always save sour cream to mix with next churning. In adding fresh cream I always cool same as before.

I always cool same as before. When enough cream is gathered, the churn is first scalded, and rinsed out with cold water. I have cream at 88 degrees in summer and 64 in win-ter. It is churned in a dairy chura, by a one and three-quarter horse power engine, taking about 90 to 60 minutes for butter to form. I draw off butter-mills and rinse in how astres. These milk and rinse in two waters. Then the butter is lifted with ladle into but Then ter bowl which has previously been scalded and rinsed in cold water.

scalded and rinsed in cold water. The butter is weighed and to each pound of butter, I put one and one-quarter ounces of salt, work thor-oughly and stand about three hours buginy and stand about mee nours then work water out and put in pound prints, or pack in crocks to suit my customers. I have all my butter paper marked "dairy butter". My butter is always fresh and sweet, and I have more customers than I can supply.

Conducted by MARION DALLAS Good Times and Money-Making Suggestions

Amusements

Diggestions NE of the successful parties dur-fing the Baster season is a "Violet Party." To begin with, the invitation arouse curkesity. Have plain white egge-haped pleces of plain which are inscribed in violet ink:

The Women's Institute At Home April -

Progressive The missing word is supplied by a bunch of artificial violets, held in place by sealing wax, or a bunch of violets painted in water colors. The decorations are violets.

At either side of the door leading into the parlor are branches of trees, with green leaves fastened on As each guest enters, the gentlemen take a leaf from one side and the ladies from the other. The back of each leaf bears some such inscription as; Table bears some such inscription as; range 1, A. or B and so on. This indicates that the holder is to play at first table and with the one who holds a leaf similarly lettered. Everyone is given a booklet made of cardboard or paper. On each table is placed a small dish of loose violet leaves, which have been cut from a mucilaged sheet of viole paper. At a given signal all the play-ers close their eyes and each tries to place a violet leaf properly on the green calyx which appears on the first page of their booklet. A few minutes page of their booklet. A few minutes is allowed, and then the leader calls "time," and the haphased "time," and the haphazard planting makes all laugh when they open their

Couple "A" moves down to the last Leaves are picked for a sec table. ond attempt, and so on until the violet is completed. The couple showing the best violets are swarded a badge, or certificate of art. After this a black board is put up and each guest tries board is gut up and each guest tries to draw emer picture in which a violet appears. The others are supposed to guess what is represents. Partners are chosen for tea by matching broken paper eggs, the hostess distributing one haif to the ladies and one to the gantiemen. The refrectivements as far-sentiemen. The refrective tablet shade.

Scrap Party. A novel party is a scrap party. The (Concluded on page 32.)

Tas

S AP bucks ate enough will be hield nin' Whi ous served i several reci variety of w use of this

Maple App avual, then sized sour over the cri

Complete Dining Room Suite for \$67.50 The suits, which is made of cold oak, in either lund or colden finish, consists of a picces of matched deals. Buffer, 43 inches wide, has British berei mirror, spectous supboards and drawnai China China the State of the stars in results basher. A grand cutif for the dialog-room, seet to any station in Ontario at holory filds

The Adams Furniture Co., Limited, Toronto, Ont.



(26)



The flour that delights the heart of any woman who uses it, and makes The nour that designs the neart or any woman who uses it, and makes baking one of the pleasures of life. Try it once and you will want no other. We have special brands for every kind of cooking. Order your Spring supply from your dealer this week.

When You Order

Your Spring Supply

Reindeer

Flour

The Peterboro Cereal Co. Peterboro, Ontario



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Make Your Bread Enticing

THE OWNER WHEN THE PARTY OF THE P

Bread is so essential to growth and vitality, you should encourage your folks to eat more. Win them to bread-eating by making your bread irresistible.

Baked from FIVE ROSES flour, your loaf enjoys a unique personality that belongs to none other.

Appearance, flavour, digestion, economy - all are served by using



In the same splendid loaf, let it bring you this extra quality : -a fulness of nutlike flavour, a sweetness that is envied by the best cooks everywhere.

-a crisp, thin crust that is crinkly and toothsome.

an elastic texture, porous and well-risen, that retains for days its original freshness, the kind that cuts without crumbling, every slice not only a delight, but a source of vitality, alive with the matchless nutrition of Manitoba's richest wheat, -a downy lightness ensuring ready and complete digestion. FIVE ROSES brings more-it brings economy. Because of its uncommon strength, it absorbs more liquid and produces more loaves with less exertion.

Insist on FIVE ROSES flour for all your baking.

It promotes the family health and mitigates the high cost of living,

Tasty Maple Dishes

S AP buckets and kettles will soon be putting in an appearant S^{AB} buckets and kottles will scone be putting in an appearance again, and those of us who are fortun-te coough to have a good maple bush, will be hising off to see if "sagis run-hi". While maple syrup is delici-ous sowed in the usual way, here are averal recipes which may suggest a variety of ways in which to make good ase of this farm product. Maple Apple Fig. Make nice syntax

Maple Apple Pie .-- Make pie crust as aspai, then take three or four good alzed sour apples, slice and spread over the crust, then add one cup of

maple eugar.

NOT BLEACHED - NOT BLENDED

OVER 200,000 WOMEN HAVE SENT for this 144-PAGE BOOK

It gives many uses for state bread and cake : French toat, bread puddings, bread cakes, A splendid chapter on sandwich making.

ALL ABOUT BREAD AND CAKE MAKING

CARE MALING The Amount FIFE ROSES Cost Book and gives complete, natherstand-hock and gives complete, nather Faid-berger and the second second second second second with the basis taking second second second second second tables of thousands of seconds the FIFEROSES Cost Book. Maind the FIFEROSES Cost Book. Maind the FIFEROSES Cost Book. Maind the FIFEROSES Cost Books Million for the most stangle, Adversa Topel, FIFEROSES Cost Books Million for the second stangle. Adversa Topel, fo

Maple Cake ... Two enound be baked in a moderate oven. Maple Cake ... Two eggs, one table-spoonful of lard or butter, three tea-spoonfuls of baking powder, one oup eponfuls of baking powder, one cup maple sugar, one cup sweet milk, three cups flour. Best builter to a cream and gradually add sugar; when light, add the egs well beaten, then the milk and last the flour in which the baking powder has been well mis-ed. Bake in a moderate oven.

Maple Syrup Spice Cake.-One cup of sugar, one-half cup butter, one egg, one cup sour milk, two teaspoons baving powder dissolved in milk, one-

This should be baked half cup maple ayrup, one and one-balf cups flour, one teaspoon each of cloves and chunamon.

cloves and chunamon. Maple Sauce. -Two egg yolks besten until thick, add alowfy one-fourth cup of hot maple syrup, cook until spoon is costed, strain and beat well until cool, add one-half cup of whipped cream and dash of sait. Serve very cold. cold

Maple Rice .- Boil rice in the usual manner until tender, then add a quar-ter cup of cream and half a cup of milk. Cook slowly until the liquid is absorb-ed. Turn into a buttered pudding dish and pour a cup of maple syrup over

Ab

the top, and stand for about five min-utes in the orea. This may be served for either with or without cream. Maple Fire.-Sit is difficult to have variety in pies. A nice filling for a pie can be made from one egy. butter size of a wainit, one tablespoon flour, and a cup of maple syrup.

Jam-Jams

Jam-Jams Two eggs, one cup sugar, one cup butter, one-half cup cream, one scant teaspoon soda, two teaspoons cream of tartar. Roll out thin and cut into desired shape. Put two together with any kind of jam.

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Winter Da

It was tow Bailey's care that two m which practic He began to winter dairyi the city of IN of my cows n he told me. the price goe till spring the and more tim that I made a into winter d take advantag quart for the

It is just i since Mr. Ball to Montreal. T the breedin ing for high n cows averaged last year that 200 acres, he wages to a ma \$90 taxes, and for himself. U But already

a land owner. 4 that there is 1 that will rent selling price. more profitable to own it. Mr. agree with this something withi makes him des ings of nature n owner, although been more profi the days when man on the Car his ideal to own like it; preferan self. Four year of my visit to M offered for sale. \$1,100 in the ban the calibre of the agreed to an first payment o of \$10,000. The arranged, Mr. B to his rented far Carlyle remained interest or rent was during this this \$3,000 he ma this \$3,000 be ma ment on his own now been for alm

' The Profit

Mr. Balley is fe that had given h winter dairyman per. Practically comes from the 32 were being m my visit. In th cember to Marc account was kept

If you could leave the house in the cold winter mornings knowing that it was a warm, cheerful place for mother and the family to spend the daycouidn't you go about your work with a lighter heart? Wouldn't your whole winter life be changed?

Suppose that, not a few rooms, but every room in your house were made comfortable with a Hecla Furnace. No matter how early you might tumble out in the morning you would have warm rooms to dress in. There would be no waiting around for the house to become habitable. A few minutes' attention to your Hecla in the morning would provide warmth and comfort for the whole day.

Cold floors, drafty halls, and dreary sleeping rooms with their dangers of colds and chills would be gone forever. Your home would be a home twelve months in the year from the day you installed your Hecla Heating Sys-Instead of being shut off from the tem. world all winter, your home would attract your friends and make lifs gayer for your family. Add winter comfort to the charm of country life and the city would lose its at-traction for your sons and the hired help. With Hecla heating your home would be the best place on earth for you and yours.

An Old House Can be Heated

Without making costly alterations to your house, without a large initial cost, and with-out much increase in your coal bill, you can have a liecla Heating System in your present_home.

Consider, now, that your old home can be made modern for anywhere from \$90 to \$150

made modern for anywhere from \$90 to \$150 -aurely a small investment in happiness and cheer for your family. Consider that with a few tons of coal a Hecla Furnace will make your home as coay as the finest city home with its costly heat-ing plant. Some farmers tell us that they use only 3%, 4 or 5 tons of coal during the whiter. And if you have wood to burn you whiter, when fire are keept caseful in mid-where the fires are keept caseful in mid-where the fires are keept caseful in mid-where the fires are keept caseful in the whiter is a large door to take rough well. It has a large door to take rough chunks of wood. It has a wood grate that slips in or out without the need of bolts or screws.

Buy Comfort, Guaranteed

If that fine liftle hour

were only warm

A little thought on the subject must clearly show how easy it would be to secure the comfort that would make such a world of difference in your home life. How little action is needed on your part to make the change from winter dreariness to winter cheerfulness?

cheercluiees? It is not as though you took any chance in the matter. Hecks Furnaces are guaranteed to heat your home. We plan the heating system and take full responsibility for it. The men who represent us are chosen men. They have our experts to jud them. And hey have our experts to jud them. And hey have our experts to jud them. And ing job they do. This means that you may be sure of full satisfaction, no matter what the style or plan of your house.

Save One Ton in Seven

And in addition to a guarantee of thorough And in addition to a guarantee of thorough heating, the Heefa has other fine features that you will surely want. Some of these cannot, be obtained in any other system be-cause they are Heefa Patents.

FIRST.—Hecka owners save one ton of coal in seven, because the Hecka has a patented Fire-pot with a triple heating surface. This is the famous STEL_RIBBED Fire-potthe greatest single coal-saving feature ever

SECOND .- No gas or dust from the fire can ever escape through the warm air registers. This we can guarantee because the Hecla has FUSED JOINTS that can never open and allow leakage into the warm air flues. Nor can gas escape from the doors of the Hecla. There is an automatic gas damper that draws off all surplus gas.

Mellow Air-No Gas-No Dust

THIRD .- Dryness in the air, which is found even in the most costly heating systems, is guarded against in the Hecla. The moisture supply is so liberal that Hecla Heating is as mellow as June air.

The Hecla can be checked down to hold * the fire for hours without waste. Closefitting doors and dampers, carefully made parts, fine materials rightly proportioned checks and drafts, all combine to save coal. The Hecla can be shaken down with four separate grate bars so that no live fire need come through with the ashes. These points are all daily money-savers that make big economies in the course of the season.



Make plans now for the time when you will heat your home

CLARE BROS. & CO., LIMITED, PRESTON

Any one who would like to know what it Any one who would like to know what it would cost to heat his house with a Hecia can have the information for the asking. It will not matter to us that you are not yet ready to instal a heating system. If you feed the need of one and would like to know what your outlay would be, we have me who are sumbound in further with action are employed to furnish you with estimates, full details and blue prints if you want them, This is done without cost to you. You will certainly be interested in studying

the question of beating from the literature we send. Our booklet, "Comfort and Health' is a very thorough treatment of the nubject, and we will be glad to send if free to anyone who wants it, and mentions "Farm and Dairy." Writing will not place you under any obligation whatever and will bring you by an early mail the means of planning comfortable and economical warmth in your home. warmth in your home.

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1916.

FARM AND DAIRY.

From Hired Man to Farm Owner

(Continued from page 5.)

stayed nine years. He increased his feed expenses, and it was found that herd to 30 cows, raised all his own the income over and above feed pur-feed, planned well and then began to chased was \$1,500. hard to a 200 acro farm where he iked 40 cows.

milked 40 cows. When at Morewood, Mr. Bulley had made a change which he regards as important in his financial progress. His Ayrshire cows gave too good milk to be sold on a market where quality was not considered. What he quality was not considered. What he wanted was cows that would produce great quantities of milk. Accordingly Holstein blood was introduced into the grade herd, and pure-bred Holstein grade herd, and pure-bred Holstein sires have been used constantly since then. The herd, as I saw it, contain-ed two or three old Ayrshire cows that are heavy producers, but the great bulk of them have the mark-ings and the scale of pure-bred Hol-

Winter Dairying and City Milk.

It was toward the close of Mr. Bailey's career as a tenant farmer, that two more changes were made which practically doubled his income. which practically doubled his income. He began to specialize strongly in winter dairying, and to ship milk to the city of Montreal. "The majority the city of Montreal. "The majority" of my cows how come in in October," he told me. "This is the month that the price goes up and from then on till spring there are no files to bother, and more time to milk. I cannot say that I made any month. I cannot say that I made any month.

that I made any money until I went, into winter dairying, and began to tuke advantage of milk at six out, and the Montreal trade." I is just four years this August since Mr. Balley started to ship milk to Montreal. Then he began to realize on the breeding that he had been do-ing for high milk production. His 40 covs averaged him 3100 apieco. The last year that he spent on his rented last year that he spent on his rented 200 acres, he paid \$500 rent, \$420 wages to a man who boarded himself, \$90 taxes, and saved practically \$3,000 for himself. A good showing!

so taxes, and saved practically \$3,000 for himself. A good showing! But already Mr. Bailey had become a land owner. It is commonly affirmed that there is not a farm in Ontario that there is not a fairm in Ontario that will rent for at per cent, of its selling price. If this be true it is more profitable to rent farm land than to own it. Mr. Bailey is included to arree with this deduction. There is something within man, however, which makes him desire the ownership of the soil he works. And the recent something within man, no wever, which makes him desire the ownership of the soil he works. And the prompt-ings of nature made Mr. Balley a farm owner, although renting might have been more profitable financially. From been more profitable financially, From the source of the source of the source is ideal to even that fame is and been of my visit to Mr. Balley, the farm te-elf. Your years previous to the time of my visit to Mr. Balley, the farm was effered for sale. Mr. Balley had just 1,100. In the bank. Mr. Carlyle farm the eally of the man, however, and he safreed to accept the \$1,100 as a first payment on the purchase price of \$10,00. The details having been to have of Mr. Balley the ment back. Carlyle remained for a year, and Mr. Carlyle remained an high term without O his feature hain for a year, and any Carlyle remained on hig farm without interest or rent changing hands. It was during this year that Mr. Bailey this \$3,000 he made as his second pay-this \$3,000 be made as his second payment on his own home, where he has now been for almost four years.

The Profits of Dairying.

Ar Galloy fa farming along the lines, that had given his best auccess—as a white dairyman and a city milk ship-per. Practically his whole income comes from the dairy cows, of which 23 were being milked at the time of my visit. In the four months, De-cember to March, inclusive, careful account was kept of milk receipts and

chased was \$1,500. Mr. Batley does not yet own in full the farm on which he lives, but from the fag: os which he gave nee, and which 1 any given here, it is evident that the ownership of the farm which he desired when working as a hired man for a mere pittance, is well within his reach.

In mir react. This article would not be complete without mention of the Bailey home; for success such as Mr. Bailey has achieved is well nigh impossible with-out the assistance of a good wife and an industrious family. Mr. Bailey has had the loyal assistance of both. The house is commodious, comfortable and fitted with such up-to-date conve-nlences as running water and a bath nerces as running water and a bath room. Surely the ownership of such a home and farm is a sufficient re-ward for industry and thrift.

A Stable Wall Decoration

HE dairy department of the Wis-consin College of Agriculture is urging that the following be pasted up in every dairy barn in the state.

"Practise the following advice and you will make more dollars in dairy-ing. Others have done it. Why can't you?

"Use pure-bred dairy sires from "Do not turn cows out to remain cows having large and profitable pro-ductions of milk and butter-fat. "Raise well the heifer calves from

cows which for one or more genera-tions have made large and profitable productions of milk and butter-fat. "Breed helf.rs at the age of sixteen

to twenty months. "Feed helfers liberally and milk

regularly.

In Summer Time

In Summer Time "Do not try to save feed by turn-ing to pasture too early." "Provide pienty of pure, fresh water, shade, and protection against files during hot weather. "Supplement poor pastures with corn sliage or green solling crops like orys, peas, oats, green corn fodder, cebbage and other available feed.

In Winter Time

"Feed cows daily one pound of grain for every three pounds of milk produced, twenty-dive to forty pounds of corn silage, and what clover or alfalfa hay they will eat.

and suffer in cold, stormy weather. "Allow them to have water which is not colder than that from a deep well twice or three time daily. "Brush cows daily if you can pos-sibly find the time, for it pays better than done refer to the pays better

than does grooming of horses, which as a rule is not neglected. Keep cows in clean, well-lighted, properly ventilated stables.

At All Times

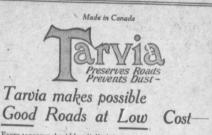
"Treat cows gently and avoid excitemer Weigh the milk of each cow at

"Get your neighbors to share with you in owning a Babcock milk tester

"Discard the cow which has failed at the end of the year to pay market price for all the feed she has con-

"Give cows six to eight weeks' rest between lactation periods. "Belong to a dairy cattle breeders"

association, a cow-testing association and every organization that will help to keep you posted and in touch with the best up-to-date methods of man-aging your dairy berd."



Every taxpayer should be vitally interested in good roads. Good roads in the community mean reduced taxes, increased property values, reduced transportation costs. They are a great factor in the promotion of general prosperity.

From the standpoint of service and low cost the most satisfactory road to-day is a tarvia-macadam.

Tarvia is a coal tar material of great bonding power and is made in several grades to meet varying road conditions

Under heavy loads a tarviated road is somewhat elastic-not brittle-and traffic wears it smoother.

Such a road is dustless, mudless and automobile-proof.

The Tarvia also has the effect of making the road surface water-proof and preventing ravelling by rain torrents.

Of importance to taxpayers, its coat is more than repaid by the saving in maintenance expenses. Thousands of miles of Tarvia roads

(29)

are giving satisfactory service to-day and hundreds of towns are using Tarvia regularly. In fact, many up-to-date towns build every new road with Tarvia and find that

new road with Tarvia and find that they save money. If you want better roads and hower taxes, our Special Service Depart-ment can greatly assist you. Write to nearest office regarding road to nearest of the service of the service engineers. This service is free.

Write nearest office for free illustrated booklet THE PATERSON MANUFACTURING COMPANY, LIMITED MONTREAL TORONTO THE CARRITTE-PATERSON MANUFACTURING CO., LIMITED WINNIPEG VANCOUVER











Page Fence Direct to you. Freight Paid.

T may be many years before fence is as cheap as it is now. If you need fence within the next two or three years, we advise purchasing at once.

We are for the present selling Page Perfect Fences, all No. 9 full gauge, locks also No. 9 gauge, at following prices, which are the lowest that anyone can name you for good quality. In buying Page goods you are assured of getting what you pay for.



Aguil 6, 1916.



A Live Alberta Creamery W. MoD. Tait, Alberta.

The most rait Arberts. The control of the card son Creamery Company, a irre organization operating a cooperating creamery in Southern Alberts. Of the 50 creameries operating in the province, Cardison is the largest cub side of those in the cities of Calgary and Edmonton.

In 1914 the butter output of Card-ston Creamery reached 165,000 Pbs., while 1915 shows a record of 265,000 while 3915 shows a record of 396,060 lbs, an increase of some 100,060 ibs, In 1914 396,000 was paid out to pai-rons for builter hat; in 1915 \$86,000 was distributed among the farmers a wareage of \$5,000 paid to farmers each mosth for cream delivered to Card-sico Graemory. Nothing is shipped in to the town from rakiroad points, so that the recency and out is paid to

In its other array, routing its support of the standard standard standard standard standard is that the compare in the probability of armore, whice will, in all probability append it in the town. With the extension of annual amounts sould be whole and is house a line of the standard standard standard by the Department of Agriculture for the province, and the built heater from which is a standard be will be built for the province the standard standard of heat failed be trade of the builter of heat failed be trade of the builter constant when a supervised by New Zea-land. Between Many and Segtember has failed bis were soid by the manager of Cardenic Creamery to the Department at an average price the Department at an average price of 27.7 cents a pound.

of 3.7. cents a pound. The capacity of the oreamery has just been doubled, making a total now of 1,400 lbs. a day. A new system of cream risening has just been adopted, an ice house built, and an office and

between robuing has been acopied, in the house built, and an office and testing room equipped. Subject of the second second second row and therefore in the work count row and therefore in the work count of the write adarying 'to count to the write adarying 'to count to the write adarying 'to count to the write adarying 'to count with the second second second second second second second second second room officient in the second second second room officient in the remaining to first this creanatory that a forw years ago raised its grades from noth-ing to first. This splendic record has been consistently maintained ever since, and the builter maker, Harry

been consistently maintained ever since, and the butter maker, Harry Mointonh, has won the distinction of a place second to none in the pro-vince. It is largely through his un-tring efforts as maker and manager that the creamery has had the suc-cess credited to it.

Shrinkage in Print Butter

Shrinkage in Print Butter A ^N act headad by the New York State legislature in Bit's ro-quires that print butter shull be stamped with the correct weight, the maximum variation allowed on a pounce on an individual print, provid-ing that the average error on 13 prints users at andown shall not be over one-querter of an eune per pound. The takens at random shall not be over one-querter of an eune per pound. The takens at mode on three-stipling the to be reached users of the passing of the twy immediately brought to the front the question of variation to validit caused by strinkage. The sub-jet has been investigated at Oeraal aused by shrinkage. The been investigated at Con



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Silver's "Ohio" Silo Filler

this that has drive pulley, cutting and blower fan all on the main Write for entaiog and our four-color We sand these two books free. Enclose Ste to cover duty Enclose five books free. Enclose fie to cover duty and postage and we send 'Modern Slinge Methods' Silver Mfg. Co. 361 TLAG Broadway Salem Ohio

BSORBINE A second second

Manufactured only by W. P. YOUNG, P.D.F.124 Lymans Bldg., Montreal, Can.

Absorbice and Absorbice, 3r., are made to Canada.

Highest Price for Cream The T. Easton Company wants our Oream for Butter Making urposes. We furnish the cane Purposes. We furnish the came and pay the express charges with-in a radius of 250 miles of Tarento. Drop us a ond and we shall be pleased to furnish you with any further information you may re-Purposes

THE T. EATON CO. LIMITED, TORONTO - CANADA.

SPECIAL ONE WAY FARES TO PACIFIC COAST POINTS, DAILY UNTIL APRIL 14th.

These contemplating a trip to Pacific Coast points, including Victoria, ib.O., Vancouver, B.O., Seattle, Weah, Port-land, Ora, et al., should consult Cana-dian Pacific Ticket Agents for parti-culars of low fares in effect daily us-ul April 14th.

FARM AND DAIRY.

University by H. M. Pickerill and E. M. Guthrie. A summary of their re-sults is as follows: 1. The variation of pore space, which

1. The variation of pore space, which ranges from .5 of one per cent. to over six per cent. in freshly made butter, is important in the printing process. 2. Print butter gradually loses

weight in storage.

Print butter gradually losse weight in storage.
 The rate of loss depends principally on the temperature and humidity.
 If the rate room.
 <l

posed. 7. The degree of shrinksige decreases to a considerable extent when the prints are placed in cartons. The other two methods of packing, how-ever-l-aving the prints dry after plac-ing them in boxes, or sprinkling them with water-produce about the same effect on the degree of shrinkage.

enect on the degree of shrinkage.

 In the average small store refrig-erator, the loss will approximate the limit set by law in a space of ten days when the prints are piled loosely on shelves.

Dairy Car Tours Saskatchewan

Dairy Car Tours Saskatchewan THE dairy authorities of Sas-katchewan, working in con-pleted a series of meetings in the in-terests of dairying through the medium of a special dairy car. Over 90 meetings were held, with a fotal attendance of \$568, or an average at-tendance of over 86, which was con-cheract very satisfactory in view of the adding code was the that pre-variant one of the features of the priority regimes and of the work as a series of over 100 levers, a write alow of the sate dairy utenails and also giv-ter other information of interest.

ing other information of interest. It was thought that the enormous The same thought that the encormous prime and thought that the encormous prime and the second second second second to be a second second second second second to have accurred the reverse second to have accurred the second second second the second second second second second these to the decided increases the make for November, 1915, showed a make for November, 1915, showed a main of 49 eer cent over the same month for 1914. December showed a gain of 17 ger cent, January, 84 per cent, and Pebruary, 111 per cent, Such satisfactory increases show that the farmers are taking a keen interest in dairyin, notwithstanding the high prices of grain.

Color Values

Color Values R ASTUS was before the juncte session of some found at the to be the property of a neighbor. The prisoner restricted he was not graitly because the birds in question were white; whereas his personal prefer-ences were entirely for dark fowls. "What are the advantages of light and dark breeds of poultry?" asked the saute.

the squire. "It 'pen'

"It 'pen's on how you look at it, jedge: de white ones is de easiest to see on de roosts, but de dark ones is de easiest to hide when you gits

A grade male cannot be expected to produce uniform or desirable off-spring. Select the breed you want, read the advertisements in Farm and Dairy, and write some of our breeders



INCREASED SEPARATOR EFFICIENCY

(31) 12.5

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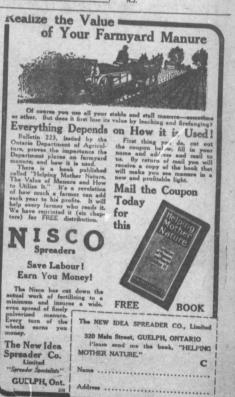
THE best cream separators often fall below expectation simply be-cause they are not properly lubricated, The separator is your most delicate farm machine. It demands an oil especially made to suit it.

Standard Hand Separator Oil

Is just such an oil. It is made for separators and it is of just the right body to quickly reach those finely adjusted, close-fitting bearings. It protocts them from all wear, It enables your made for your expander. Ask your dealer for it.

THE IMPERIAL OIL COMPANY BRANCHES IN ALL CITIES

WHITE WYANDOTTES-First class laying strain. Send 31.00, set a setting of 12 eggs, and have pullets to lay next winter. NORMAN POOLE, Perth, Ont. WHITE AND COLUMBIA WYAN-DOTTES, LIGHT BRAHMAS, S. C. WHITE LEGHORNS. Michael K.; Boyer, Box 23, Hammonton,



(32) Amusements

(Continued from page 26.)

gentiemen are asked to bring all their old cast-off thes; the ladies, piecos of silk. These are all sorted into neat piles, tied with skeins of embroidery pines, too went excins of embroadery slik, and sent to "Shut iss", or some of the old ladies in "Homes," where they prove a prize to the dear old ladies. Music and a chafing dish sup-per, make an informal evening of pleasure.

A Bonnet Party.

For real fun nothing quite equals this party. Send out with the invita-

NEPONSET

ST Basing O

DUCTS

HEAVY

MADE IN CANADA

tion a request that each lady bring an the best hat. As a reward, the lady tion a request that each any orning an old untrimmed hat, with all sorts of trimmings. When all have arrived, put the bats on one table, the trim-mings on another. Provide lots of

wears the hat to supper

An Easter Time Suggestion.

prufiling an another. Provide lots of About twenty dollars worth of eggs atout thread, needes and chimbles, came as a response to this notice in Pair the company by matching ros-the weekly paper: "The Okristian ettes of baby ribbon, and then ist Endeevor Society of entry of the couple then proceeds church at a certain date." (Have the to contact the latest style. Provide date just before Enster). Many mem-metrows. This adds to the fun, as the bers and friends brought a doren or is proto a straight and the net more of fresh eggs. These were able to make the state of the late is and the state of the straight and the state is a straight and the state is the state of the state is the state is a straight and the state is a straight and the state is the state

The Least Expensive Roofing in the World

FARM AND DAIRY

weather-proof, fire-resisting roof is the only roof worth laying. You cannot afford any other kind of roof-the danger of damage to your stock is too great, the cost of repairs in time and money burdensome.

Back of every roll of the Genuine Paroid Roofing is a record of 18 years' hard service under the most trying conditions, on farm buildings, factories, and railroad buildings.



Hundreds of Paroid Roofs laid 18 years ago are in perfect condition to-day. It has been found easy to imitate Paroid Roofing in APPEARANCE, but not in this long ser-Paroisi Rooting in APPEARANCE, but not in this long scr-vice. For Paroisi is proof against raging galaes, beating rain storms, freezing winters, mething mower, the burning sum-mer sum-the most zevere conditions eaver bet to show just how good a Paroid Roof really is. Paroid is less expensive than ahingkes, lasts lenger and is far better protection from fire. Paroid costs a little more than cheap ready-made roofings in the first place, but there are

No Repair Bills

It is repairs that cost so much time and meany, to say nothing of the damage to stock. The expenses quickly monat up with any peer reeling.

BIRD & SON, DEPT. D 70 KING STREET, HAMILTON, ONTARIO Warehouses: Montreal, Vancouver, Calgary, Halifax, St. Joha, Edmonton. The Largest Manufacturers of Roofings, Wall Board and

Reofing Felts in Canada

Look for the Paroid Roll

By it you will know one of the 2,000 Mepensot dealers in Canada. Pareid is made in three colors-Grey, Grees, and Red.

Send for free booklet, "Repairing and Building."

Neponset Wall Board For Walls, Collings and Parti-

For vans, Commy and Parti-tions, in place of high, pleases and humber. Twagh fibre material nearly one-quester of an lack thick, faished ready for use, in Cream White and Onk patterss. Cream white finish can bo painted if desired

"Well, what did you think of it?" the latter asked as they came out of the door

"I did not hear a single thing that I didn't know before," was the aston-lating answer. And he was the poor-est farmer in the section. His fields and his buildings both attested to that fact

fact. This poor farmer was just one of a type. It is one thing to know and another to 0. The msjority of un are stronger on knowing than we are on deing. The greatest difficulty that haitube lecturers meet with is the di-feculty of "getting it over" on their and-lease as forcibly and convincingly that their heaver will not only give assent advecated into operation. At first the Institute lecturer dependent on voice also New Institute lecturers are being estimated with a still more convincingly empha-size the value of imsproved methods which sum more convenently empoin-size the value of improved methods. And latest and best of all is the de-monstration farm idea whereby the farmer will see in his own neighbor-heed a good farm made better by the application of up-to-date methods. Even with all these methods there Even with all these medicoid there will still be a goodly percentage of farmers who will remain indifferent and will adopt improvements only when they are forced to do so by economical necessity. When men of this character leave the country for the city, the does for the country or good. The country is the seedbed of and the best weenes on the farmer Unprogressives are mights in the country. country

April 6, 1916.

Corn Sociar

This is another method which was tried and found successful in rating money in a rural community. A Corr Social was given in the spring. Every one who attended was presented with a small sack made of oheoseoloth, and a small sack made of cheeseoldth, and tied with yellow ribbon, containing 24 grains of sweet corn. These were to be planted, and the corn raised therefrom, sold. In the field at another social held for the purpose, the money which had been received was brought in, in the little asks. The children of the church way had at the same of the church may help in this way. A good idea is to buy them such seeds good Adea is to buy them such seeds as lettuce and radish and let them have their own garden. They can easily dispose of vegetables, when grown for a special object.

Easter Afternoon Tea for Elderly Ladies.

Holiday season is a lonesome time for many people, and especially the old folks in our villages and towns. One of our splendid women who gives more than a passing thought to the unequal division of pleasure, always gives a Tea Party at Easter time for gives a rea Party at Easter time for all the lonely old ladies in her town. Previous to the party she calls on all her guests and on the day sende a conveyance for all those who cannot walk. The refreshments are real oldfashioned, and she always has in expansive little favors at each plate These she picks up from time to time during the year.

Sometimes she has a little bunch of Sometimes she has a little bunch of pansies with the stems wrapped in tinfoil, another old custom, with this quotation, "Por the pansies send me back a theught." If the wore able to read all the happy thoughts of hor in the little of these old indies, she should be happy indeed.

"Getting It Over"

HE poorest farmer in the whole attend the Farmers' institute, it was neticed that he listened atten-tively to each lecture and seemed to to be absorbing the information that was flowing freely quite as carefully as his neighbor, a model farmer, who sat beside him.

all sunshine. W Mrs. Laithwai farm life by rem years and with equip it. To son would be a poor was strongly of i person should s rung. He used used to the heigh is a Welsh expiration at the starting at the a swelled head a In outlining a p ing, first we mus we wish to feat system and live v ing a success of o people start them

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takes themselve right. us are like a ca that is, we get in three or four soci in institute work tional problems, of tion taken up wi try to stock a far sheep, cattle, hen sometimes wonder not pay interest vested. The true A man can overse things, giving ord plans if he has no do, but it is bett many froms in the be successful.

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April 6



Farmers

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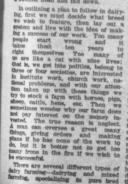
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by the ds. nds. age of ferent s only so by nen of ry for intry's bed of t men farms,



Mrs. Laithwalte and I started our

In outlining a plan to follow in dairy-

If I Were Starting on a Farm With \$2,000 Geo. Laithwaite, Huron Co., Ont.

L OOKING back over the years we have spent in dairying and with the dairy breeds, it has not been all sumshine. We have had our rainy days of trouble, also our fine days.

A Start With \$2,000.

A fara with space. Mrs. Laithwalls and I started our farm life by renting a farm for three years and with \$1,000 to stock and equb it. To some young poople this would be a poor start, but my father was strongly of the ophnics that every person should start at the bottom rend for used to say that "you get and the store and the start and the starting at the top runn foung met a weight expression of the start a weight and and dail down.

The series like a set with mine lives for even four society, so interested in a ketturk work, as interested is a social work is a to social ketturk work is a interest on the momer in vested. The true reason is neglect is a monex work is a social work is a man can oversee a sprease in margin is a tit he is bester not so get to be accounting. There are severed informed to be saft, do not bury is too cow for \$250 if she will not a stool cow for \$250 if she will not a too cow for \$250 if she will not a stool cow for \$250 if she will not

a Farm With \$2,000 Huron Co., Ont. stock: selling milk or cream to the nearby town or city: sending milk to cheese or butter factory, etc. The Retail Trade.

The Retail Trade. I have had a little experience in the field of supplying milk to constoners. If a this business, however, one must be an in the with what the market in the supplying the supplying the supplying in the supplying the supplying the supplying in the supplying the suppl

them and we will be number around the mean supply. I believe it would be a hard proposi-tion to lay out \$2,000 to equip a plant to deliver 100 qts. a day, but less than this would not pay. Two or three young men with small means might co-young men with small means might co-The second secon

the other man's pocket, for which we had no value. Some will criticize me for recom-mending chaose farm component. The farmer on the small cathonic and the farmer on the small cathonic and the statistic the paring notes on the statistic plements. How much real profile and the cost of a binder like up 7 You new sell 10 hogs at seven cents a pennel weighting 200 like, each, which will amount to \$140. R costs you five cents

a pound to feed them, leaving you a profit of \$4 each. If a binder costs you \$120 that will amount to the profit from 30 pigs.

..... Name Address

My Success With Jerseys.

My Success With Jerssys. The angressions that I have given herewith are all gloaned from our own practical areas of our out all less that the second state of the less that. One of our own hume has been made toward the develop less and the second state of give ment of a perducing med the develop Jerssy cattle. I would the to give oncekling of the work due to give Goderich Jerssy herd of 11 head has our Goderich Jerssy herd of 11 head has we made 4,463 the of butter, bringing us made 4,363 the of butter, bringing us 1,100.58.

us \$1,160.58. The feed cost us \$595. This leaves us a profit over and above feed of \$565.58. In addition to this we had \$6,659.58. Cost and the set of the set of \$0,659.58. This is the start of a herd to which as the end of a herd to which be empowed to start in with at the first.

Flax Expert Appointed

Flax Expert Appointed M. G. G. BHAMHILI, a traduted College, has been appointed as a specific as expert under the Agri-others of the ontain with the whole fax enter under the Agri-others of the ontain with the whole fax guestions in containt or on investigations in containt or on the or production and the utilisations that first for industrial purpose, the ontain of the ontain of the proper-tainty of the ontain to propresen-tainty of the ontain to propresen-tainty of the ontain of the state as inductions in containt, and the induction in Canada.

Farmers' prosperity started when they discovered the value of tima. When you woke up to the fact that your own time and your help's time was the most valuable thang on the farm, you demanded labour started to the startest way of fearce building. Here is an improvement in farm of differentiate way of fearce building. No longer need you dig a fonce post help the the start starts in importance with No longer need you dig a fonce post help the the start starts in the start wooden post in it, fill up the hole, and then have times too big plant a money times they want with a boy to help you. Over three times tight, strong fonce posts, you can over three times tight, strong fonce posts, you can over three times tight, strong fonce posts, you can over three times them to our the lot way. Build a time heave the out way. The to get the labour could be end the mine the out way. Chird or less as compared with wooden post. Thus: Hou

Three Times Faster Than the Old Way

FARM AND DAIRY.

1111111111111111 TUBE & FENCE CO., LTD., WOODSTOCK, ONT. Gentlemen,-Please send me your catalogue price list, and special folder on Standard Tube

1 Martine not lift them, worms cannot de-stroy them. Adopt this modern economy when building your next fence.

STANDARD TUBE STEEL FENCE POSTS AND WIRE FENCING. STANDARD WIRE FENCING is full

(33)

STANDARD WIRE PIENCING is full Goromania Standard No. 9 Gauge, acour-stay and encourts Standard No. 9 Gauge, acour-duct exclusive couply galvaniaed. Our exclusive couply galvaniaed from which has been couple due to our orginal know all other farm fence. By this improvide used on nearly gradual curve which does not break non injure the gal-vanising. We guarantee them rest-proof. We guarantee them rest-proof.

our prices.

TEAR OFF, SIGN AND MAIL.

357

Frost can

Amril 6, 1916.

Vete

April 6.

HAVE an muddy of failed in What is the Dist. Ont. Give her tassium the beco probably a qual parts iron, gentia and give h

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W down behind soon as she eats bran nig poor and giv the winter si ensilage as 1 coming on for g on for March. e.-E. R

This cow is some chronic culosis. The her tested will inarian. All tonics and fee of sulphate and nux vomi spoonful three tubercular, tr affect.

Dia

Dial COULD you have just in are. I also-and they, too, i are dead they to the eight is all warm, separate could the diase to another in the cure --W. W., The disarcher

The diarrhoe cause. We an due to the flour feeding flour a with the hulls hran It woul thoroughly swe and then wash five per cent. so acid and in a fe coat of hot lim cent. of the ca sible there may that causes the fection would d

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inactive on acco tion that existed the vinegar. It is the udder will a after she calves.

allow her to go d (2) It is not pr the wart on her tumor, should be off and the raw three times dally

Mr. Burke Gets a Pound More Butter Per Week

F OR some years we have been laying emphasis on the great skimming meaning of the second great skimming records of the Standard Cream separator at Government Dairy Schools and on

the farm. We have printed many of these records. We intend to keep on printing them, because they prove the superiority of the Standard beyond any question. In Nova Scotia, for example, the Standard Cream

separator has achieved great fame for close skimming. A letter on our files from H. D. Burke, of Prince Albert, N. S., dated October Rad, 1315, shows what a Standard has done

shows what a Standard has only for him. He says:--"I am very pleased to say that the Standard cream separator, size 4, that I have been using since the 1st of September, is giving me per-

Int of September, in grains no part fect satisfaction. We have used two other kinds at separate make a pound more butter a weak with the Standard than with either of the others. We will be pleased to correspond with intend-ing separator buyers."

ing separator buyers." Another man, this time from Sprucedale, Ontario, "We are well pleased with the Standard cream . We made more butter off four cows last writes: cows last separator. separator. We made more butter off four cows last year with the separator than we did in 1912 off six cows without the separator. The four cows were the same ones milked in 1912 and 1913. (Signed) Thos. J. Smith

American dairymen have also learned about the close

skimming records of the Standard cream separator, and we are sending larger numbers of this Canadian-made machine across the line every year. Last year we ship ped 47 per cent. more separators to the United States than the previous year. This is merely mentioned to show you that the Standard cream separator can successfully ompete with foreign machines right in their own field. Basides being the closest of skimmers the Standard

Besides being the closest of sammers the sammers cream separator is of the most modern construction, has the most therough self-olling system, and if does not drip oll on to the floor or over the machine. It has interchangeable capacity

-years ahead of other separators in this respect. The capacity of a Standard machine can be increased

at any time by merely changing the size of the bowl. You do not have to buy an entirely new machine if you should hap-pen to increase the size of your herd any time.

Compared with other machines, the Btandard gives you the utmost dollar for dollar value. You cannot find a machine constructed of better materials, or more accurately built, or more up-to-dste. You cannot find one that will make more money for you. In fact, the Btandard owes fits successful to its superiority as a cream getter and money earner. If it is MORE cream profits you want, the Btandard will get them for you. We guarantoe fit.

Made in Canada

Have you read the latest Standard cream separator catalogue? It's free. Send us your name and address

seem better to feed the alfalfa and

silage throughout the year rather than to utilize so much hand in

pasture. On an S0-acre farm one could pro-ably keep from 20 to 30 cows and enough of the haffer calves to keep m his herd, a buil, six or eight head of horses, a few brood sows and chick-ena. The profils will vary according to the kind of cows kept and the skill

According to Fraser, a cow will have to give 4,000 ibs. of milk in a year before she pays for more than her feed and the labor, interest, taxes,

depreciation and other items of er-pense. A 5,000-bb. cow will pay \$10

pense. A 5,000-lb. cow will pay \$10 profit above these expenses; a 6,000-lb. cow, \$20; a 7,000-lb cow, \$30; an 8,000-lb. cow, \$40; and a 15,000-lb, cow, \$128.

Grade cows of this character will cost all the way from \$75 to \$200 each, and it is difficult to find cows

giving \$,000 Hes. or more at any price. Horses will cost from \$300 to \$500

Horses will cost from \$300 to how per team. Machinery and tools will cost from \$760 up to as high as \$2,00, depending on local conditions as whether the farmer can hire such tools as slage cutter and power is

investment of anywhere between

\$12,000 and \$25,000 depending on the price of hand, the character of build ings and the completeness of equip

80 acres land at \$150\$12,00 Machinery and equipment 1,00 80 cows at \$100 3,000

4 horses 10 brood sows boar

Cash

Total capital\$17.83

If the 80 acres of land could be pup

Pepreset

An So-acre farm would

For example:

pasture.

the farmer.

operate them

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bull

The Renfrew Machinery Co., Limited Head Office and Works, RENFREW, ONT. AGENCIES ALMOST EVERYWHERE IN CAMADA.

B. C. Farmers' Institute Convention

HE 17th Annual Farmers' Insti-The off of the convention was beed in Victoria, Mar. 8-10, with an at-tendance of 90 delegates, representing about 9,000 members. Superintendent Sectt stated that although the numof Institutes have increased durber of institutes have increased dur-ing the year from 114 to 140, the actual membership had decreased owing to the large number of farm hands who had joined the expeditionary forces. The agricultural pro-duction in 1915 for the Province, amounted to \$31,000,000, while the imports had decreased from \$24, 000,000 in 1914 to \$16,000,000 in 1915.

Information regarding the proposed Government loans to farmers was given by Alex. Lucas, one of the members of the Agricultural Royal Commission, who stated that the B. (C. Agricultural Credits Act was based on New Zealand legislation. It would be administered by a non-partisan commission. Before securing a loan, an applicant would require to have two well-known reliable men from his district give evidence as to his re-liability and capability. It was expected that the act would be in operation within the next few weeks and they were trying to get about \$15, 000,000 for the purpose at the lowest they interest rates.

It was the opinion of the conven-tion that the owners of land held for speculative purposes, should be subspeculative purposes, should be sub-jected to a special tax, sufficient to over the expenses of destroying gophers on such land. Since this would require special legislation, however, the matter was left in the hands of the Government to dedice a quick and affective method of meetqueks and effective method of meet-ing the situation. The question of local markets was opened and W. E. Smith, of Revelstoke, pave the ex-perience of the farmers in his dis-trict in commuting the competition of Chinese pardeners, who peddled their produces from door to door. They had found the city council perfectly will-

ing to pass a by-law prohibiting such ling and requiring farm pro to be sold on the market, with the result that things were now on a more satisfactory basis

A representative of the Canadian hyposives, Ltd., explained that the high price of stumping powder was due to the increase in the price of raw material, which amounted in some cases to 300 per cont., while some of the ingredients were not now obtain able. The result would be that upon the exhaustion of the present stock on the exhapsion of the present store on hand, stumping powder would be un-available. There was also the prob-ability that the government would ability that the government would commandeer the factory for war pur-

was felt that the farmers' in stitutes should have a permanent body of bona fide farmers at their head, and an advisory board consisting of six members was in consequence elected. Superintendent Scott announced that a monthly magazine relating to in-citute work was now available to institute members at the price of 25 cents a year.

O. A. C. Drainage Surveys

- (HOSE faced with such proble as "Where shall we place our drains?" "How deep shall put them?" "What size of tiles A our drainst" "Slow deep shall we put them?" "Who is size of diene shall we use?" and so forth, can receive assistance from the O.A. Col-loge, Gaeigh, which is constanting this year shore policy of assisting farmose to solve their drainage problems. Anyone uncertain about these polish may secure its services of a drain-age surveyor, who will, it monwarr, prepare a map of the farm, showing lease and beginneds and depths of drains.

The cost for the services of the The cost for the services of the surveyor will be his travelling ex-penses, and as several surveys are made on one trip, the charge is sel-dom over \$2 for each survey made. These who have had their farms sur-veyed and have installed part, or all of their drains, may have a new plan.

prepared free of charge. On the sam terms as those for surveys, the College will send a man to give a farm-er a start in the installation of his drains if he has had no previous exdraken it be has hist ab previous con-parience. Has will show how to be grade stakes, grade the dich be-tom, make the junctions and by the tile. For information write the De-partment of Physics, O.A.G. Greelph, or make application to the mearest district representative.

A Paper Farm

correspondent of Hoard's Dairy-man asks: "How much capital A would one need to start in with dairying with 15 cows on 60 to 80 acres of land? How many cows would 80 acres support, all feeds grown on the farm?" The Editor's reply is as follows:

There are so many factors that enter in the consideration of a pro this kind that it is impossible to do more than generalize or assume some condition and work from that. The soil, climate, location, markets and greater than all else, the man, are all factors which have to be taken into account.

The owner of an 80-acre farm will have to keep, besides cows, the young stock, horses, hogs and chickens.

Fraser of Illinois says that corn silago and alfaMa will furnish all the ellage and atfalfs will furnish all the feed necessary for a cow syring up to 5,000 ibs of milk per year. He states that on the dairy farm belonging to the University of Illinois he grows these crops in shout equal acreacy and needs 40 ibs of good corn silago that woods make 60 but, of corn per acre and 16 ibs. of atfalfs hay per core. The sverage yields then will emable him to keep one cow for each 14% acres. From two to 16 acres of the 80 will be given over for house, hars, yardn, garden, orchaed and paddocts. If the farmer pastares his cows he It the so acress of raise could be pu-chased for 57 per acre, it would is duce the investment to \$11,530; at the other hand, if the land coul \$250 per acre, the prevailing price is acres sections, would increase the is vestment to \$25,530.

If the farmer pastures his cows he If the tarmer pastures an cows no will have to have not less than one acre per cow for about 75 to 80 days' feed, or nearly two acres for the sea-son. On high priced land it would



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April 6, 1916.

Veterinary Department

Muddy Urine

Unthrifty Cow

Troube-H: R: H. Fortaces of a form the This cow is switched as Mifering from some chronic disease, probably tuber-quiesas. The only means of telling whather she is tubercular is to have her tested with tuberculus in y a veter-inarian. All you can do is give her of subbate of the distance of the second subbate of the distance of the second subbate time time daily. It sub-t tubercular, treatment will have hitle there.

Diarrohea in Pigs

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Udder Trouble--- Warts

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he alfalfa and s year rather

one could prob 30 cows and lves to keep up r eight head of ows and chickvary according pt and the skill

æ, a cow will tor more than interest, taxes, w will pay \$10 penses; a 6,000-b cow, \$30; an and a 15,000-b.

character will \$75 to \$200 it to find cows re at any prica 10 \$300 to \$500 and tools will s high as \$2,000 conditions and oan hire such and power

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nd could be put te \$11,830; of the land costs Ming price is the fr

FARM AND DAIRY.

THE NATURAL DOWNWARD SQUEEZE OF THE "Call" Way" Milker HAVE an old cow whose urine is very muddy and dark colored. She had failed in flesh and has not much life. What is the trouble?...T. W., Muskoks Dict. Ont. Due, One. Give her four drams nitrate of po-tasium three lines daily undit the urine. becomes normal. Bhe will probably also require tonics. Mix equal parts of powdered subjante of iron, gentian, gingor and nux vomics, and give her a tablesponful three times daily and feed well. W⁵ have a cow five years old that lies down mod of the time. She have seen as hit years in the second sec Riald Side of Normal Position of Test in "Coll-Way" Milker Test Cop "Colf-Way" Milker Test Can MILKS COWS FROM START TO FINISH NO PAIL STRIPPING "The Worlds best Milker." Cannot Injure Cows Only Three Moving Parts

N. Cogs, Gears, Wheels, or Springs to get out of order Write to-day for our hook "The A. B. C. on Milkera," and other literature

FARM & DAIRY MACHINERY CO. 1002 LUMSDEN BLDG. TORONTO, ONT.

Udder 1 rouble-- W arts W have so whose udder went show most dry in one hind quarter last have been been been been been been listened at with our years been have been a bare so for weeks has der being in there so for weeks has but we could only get has not weeks to fraction May fird. Do you think abs is any treatment when abs freshears or have a bare of her going dry in that wither a three per cent. solution of carbolic acid. The lump on the bip may be an abscess or a tumor, and may require an operation by a veterinarian.

Trouble With Pigs

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done it will be practically of no avail. It would be wise to get your veterin-arian to hold post merium to deter-mine the cause of danta as our diag-notis may not be contex. It may be hung worms and, if an the other hand it may be some trubic caused by lo-cal conditions, as lack of ventilation, dampness, etc.

Difficult Breathing

Difficult Breathing The state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state state of the state of the state of the state state of the state of the state of the state state of the state of the state of the state state of the state

Don't Have Cross Bulls

Don't rate cities builts E Dono Parm and Dairy-Your genetics, 'How do you tandle cross or desgerous builts'' does not permit of my successful competing. Neverthese is will give my mothod, it may be helpful: I at least have found territy astikatory and have found the built, more or least for over 40 years.

handled bills, more of less for over 40 years. First, don't do it. Human life is too valandhe to the risk, no matter how valandhe a sire she buil may ba. My method is to never be rough or brutal (apologies to the brute) in the rearing of the built from calidom, the rearing of the built may face for the rearing of the bull from caligon, but always captions, yet never fearful, nor yet excessive fretting. I venture to state that all cross bulls are made to state that all cross bulls are inade so by improper handling by someone who has had charge of them. The same skind treatment produces the same satisfactory results with boars, i know.-T. H. Lowes, Yorkton.

the glands of the throat, for which nothing can be done.

359

(35)



360

(94)

We have lately made arrangements with a progressive Holstein breeder by which he is to supply us with

Two Pure Bred Holstein Bull Calves

This breeder has, during the past few years, supplied us with most of the pure-bred calves which have been so popular with our subscribers to whom we gave them free for clubs of subscribers to Farm and Dairy. They are big, strong typey fellows of good breeding, and are from high producing cows. Their breeding is guaranteed, and pedigreed papers will be furnished with each one.

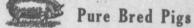


This is an opportunity for you to get a start as a breeder of purp-bred live stock. To become a breeder will add seat to all your farm-ing operations. The best farmers keep pure-bred live stock. If you want to become one of the leading farmers in your district you must get into pure live stock breeding. You will find it intensely interest-ing and profitable as well. Begin by winning one of these excellent calves. You can secure one by sending us a club of

TWENTY-FIVE NEW SUBSCRIBERS **TO FARM & DAIRY**

at \$1.00 each. Write to-day for full information, literature and sup-plies. You will be surprised to find how easy it is to win one of these calves.

We have also made arrangements with several well known breeders to supply us with



We can supply you with a pure-bred pig of any breed for only a few hours' work. Do you want to secure one of these popular premiums? If so, just pick out the breed you want and write for full particulars. Which is secure the small club of subscripters necessary. As soon as you snot the subscriptions to us we will order your pig from a reli-able breeder, who will ship direct to you, sending the pedigree papers. Within a very few months you will have a full grown, pure-breed pig that will be the enzy of all your neighbors. He will soon become A SOURCE DOF CONSTANT REVENUE.

Scores of our boy readers have secured pigs from us, and the letters which they write indicate to us how popular these Premiums as. Have is what one of them says: "Just a line to let you know that I read in my pure-bred Berkshire Sow, and that I am well pleased with pleased with the pig, and scollent pig: "Another writes: "I am well pleased with the pig, and set that he is getting along well. Those who have seen him say he is a circly and wish they had one like him." For only

NINE NEW SUBSCRIBERS **TO FARM & DAIRY**

we will send a pure-bred pig, either sex, and of any of the common breeds. Write to-day for full particulars.



Orchard and Garden Notes

An Orchard Hint

FARMER whose apple crop was invariably good, was asked if he gave his orchard any special A he pare his orchard any special treatment, for, whether his neighbors had a crop or not, he always had. His reply was that every spring, usually in March, he hauled manure to his orchard, groweding it around each tree as far as the agread of the roots. This hanger from in the ground longer, and hanger from the ground longer, and hanger from the ground longer and trees blowcotted. The heas awaity restituted the manure, hear on.

trees blossomed. The hens usually scattered the manure hater on. A farmer who knew of this, tried it, and had a greator crop of fruit than the orchard had previously produced, and titls last year sold more asples off one tree in his town lot, than most of us with large orchards had allogether. -A. A. F.

The Farmer's Orchard Peter Reid, Chateauguay Co., Que.

THERE are few farms but many series are series of the series of the area apple orchard. Such ground planted with apple trees would amply repay the owner. In planting an orchard the ground should be throughly cleaned by the growing of hose crops. If ground is low and surface underdrain. In objective the of hoed crops. If ground is low and springy, underdrain. In planting, the holes should be made sufficiently large so that the trees may be moved either way to insure straight rows. Put the best soil about the roots, and make the ground around the trees firm with the foot. Plant well grown trees of two year old growth from the graft, and cut back the last year's growth to three or four buds.

Thorough cultivation insures growth. but a little buckwheat or crimson clover sown in July, will retard the growth, ripen the wood and make the tree more hardy for the winter. Shal-low cultivation of the orchard as the Now curvation of the oriented as the trees grow larger, and the sowing of 15 to 20 lbs, of crimson clover in July, left on the ground and plowed in in the spring, fosters the growth of the tree, and at the same time ripens the wood and thus the tree becomes more hardy. hardy. Pruning is important; the tree should be cut back so as to have a low headed tree, somewhat heavier on the side of the prevailing wind. Fertilization should not be neglected; 8 to 10 tons per acre of barnyard manure, with 500 to 600 kbs. of good fertilizer, will give good results. Wood ashes are beneficial, especially in bearing orchards.

Apples cannot be successfully grown if spraying is omitted. The mixtures recommended, applied by a large hand or power sprayer, three or four times during the season, and at proper times, will give excellent results. There is will give excellent results. There is no reason why, is the Province of Que-bec, the growing of apples should not be made a more prominent feature of agriculture. We have a splendid hous market, and Quebec apples about he sold in large quantities, instead of apples from the States of Washington and Idaho.

Extensive Potato Culture

A a district where stock and grain I arming are the principal lines, with optatoes a small money crop on the side, Marshal Haynes, of Haiton County, Ont, on his own farm had given potatoes the place of first im-portance. One spring, Mr. Haynes plasted 40 acres to potatoes, and his versue grain ladim one surg with any planted 40 acies to polatones, and his average crop, laking one years with as, other, is 15 to 20 acres. In 1914, 12 scress of the folds, crop wore planted to early varieties, such as the Ohlo teles are considered more profitable that late varieties, and more of them than late varieties, and more of them are grown. They nave another advars tage in that being gotten out of the

land early, the fields can then be pre-pared for winter wheat. The princi-ple fate varieties grown are the Car-man and the Rustler.

April 6, 1916.

man and the Rustlar. "Our best potatoes are grown on a sod turned under," Mr. Haynes tod a Parm and Dairy rapresentative who called on him recently. "We top dress the sod with manure, and at time of planting add Stone's Complete Fortil-iers at the rate of 400 bbs to the arcs. We put the commancel fertilizer arcs. We put the commancel for the arcs. We put the commancel for the arcs. The plant he potatoes with a potato plant re and take them up with a potato digere.

a potato diager. "We apray for bugs principally. We have used Bordeaux mixture, but as a usual rule the early potatoes do not blight

"Cultivation is the most important factor in growing potatoes. We aim to cultivate after every rain and oftener if the raiss do not come reofficiner if the name do not come re-gunary. As an Instance of the value of outivation, I might mention one year when we had a terrible drouth, and we made a little fortune out of potatoes. The lowest price we re-ceived for our early potatoes was 60 cents a basket. Only one of our neighbors had a good crop and he got it by drivent a good crop and me got H by drivent by the state of the cultivated continuously, and to this cultivation we attribute the crop that we got. Our soll, I might state, is a sandy loam."

soli, i might state, is a sandy loam." Another interesting feature about Mr. Haynes' handling of his potato crop is the marketing. Quile a large proportion of the early potators are carried to market in a Ford automo-bile, two or three trips at day having been made to Guelph, 17 miles distant,

Good and Bad Intercrops

A. H. MacLennan, Macdonald College, Que.

THERE are certain characteristics of a good intercrop which we must consider: It must be profitable: It must need cultivation: It should not be a crop which requires stirring of the soil during the months of August and September, as we wish the young growth to be well hardened before winter: It should have differ-ent food requirements: It should have a different season of growth. There is not enough mostiure in the spring for two crops, so let the tree have the use of the soll in spring: It is best to be an annual crop.

Bearing these points in mind, I would like to give a table of crops as they may be placed in three groups-good, bad, indifferent.

Good-Beans, cabbage, tobacco, po-tatoes, onions, squash, tomatoes, corn, buckwheat, carrots, peas, chickens, Bad-Raspberries, blackberries, hay,

graina Indifferent-Ourrants, gooseberries, strawberries.

"Fruit Tree Diseases of Southern Oatario" is the title of a bulletin issued from the Publications Branch, Ottawa, and written by W. A. Mc-Cubbin, M. A. The bulletin deals with 14 diseases of the apple tree, five of the pear tree, four of the quince, seven of the aprice, five of the cherry, seven of the plum and 13 of the peach. The value of the discus-sions of these diseases is greatly en-hanced by numerous Illustrations. Methods of pervention and trai-ment are also entered into exhaust-ively.



The Ordinary a

The Small-T BOUT the way of pro-contaminat reautions have oundings all-top milking miking pail is co rily held in a pos the dirt and denst red from the cov ring milking. It as particles of d ays floating in the able. If the diam reduced to server ming is just one ore and the adv Many object that use a small-top pe No m stimated. stently object to h his pail only 8 ameter. Such a The size should e desire to produc des openings of re only five inches gested by Dr. Row visor over the unner ng is a further prote nd dust.—R. A. Pear

Types of S HE common str cans has flarin concave botton ing in the centre of dy partially serves oves coarse mate m in the milk stree purities which are a agitation and so red through the sm constant current o improve daers are now mad m are very simple come the objectio In the pyramide e centre of the metal the straining surfa sk down until out



in 1.-The Pyramidal

are so arranged rising when it passes me (fig. 2), and dirt h the bottom of a settle layer of cotton between cheese cloth and picture to keep it in picture to keep it in picture which the state of the second states which the second states and the second states and the second states and states, but special car used there, but special car used there. et to thoroughly out un to thoroughly clean

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day having rcrops ald College,

racteristics which we which we must be cultivation: ch requires as we wish H hardened have differhould have th. There the spring be have the t is best to

n mind, I of crops as HE STOUDSbacco, po-toes, corn, chickens. erries, hay,

oseberries,

Southern a bulletin is Branch, V. A. Mcdeals with se, five of e quince, of the

and 12 of he discusreatly en-ustrations, nd treat-exhaust-

milk flow s already s in good s goes on perself in balance of



The Ordinary and Small-top Milking Pails. Which is the More Cleanly?

The Small-Top Milking Pail

April 6, 1916

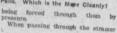
The Small- top Wilking 4 mil BOUT the most common-sense way of protecting milk from contamination after reasonable securitons have been taken to have he surroundhings clean is to use a malitoe milking paid. The ordinary arising paid is commonly 14 inches friding paid is commonly 14 inches and the difficult optimized in the sec-ent held in a position if it is not are difficult due take in the most are drown to cow's udder and finants aird from the cow's udder and finnite minimum hits. It recoives udder and finnite as particles of dust, which are al-age founting in the air of a series mit. If the diameter of the opening reduce to seven inches, then the series as the advantage is endown May object that it is not convenient as as small-top pail, but they would as find that its difficulties are over-dented. No miker could see and animative part of the set over-dimatch. No milker could can been had has the difficulties are over-dimatch. No milker could cou-ne the set of the set of the set of the pair only 8 or 10 inches in usi movement pair would be a set in overlaps of the milker. In and the derive to produce check milk and the derive to produce check milk and the derive to produce the set inte coordings of the milking pairs we shy five inches in diameter. As graveted by Dr. Rowhind G. Preeman, ther over the upper site of the open is a surface protection against dirt al dust-R. A. Pearson, U. S. D. A.

Types of Strainers

Types of Strainers The common sirulars used over can be faring rides and a concave bottom, the wire gauge is the common of the bottom. This is the common of the bottom. This is the common of the posteriors is the common of the posteriors will be a strained by the soft posterior of the bottom of the is the minimum of the single of the old posterior of the posteriors of the old posterior of the strained is the old posterior of the metal gauge is raised to form and the strained is the old posterior of the metal gauge is raised to form unit out of the current.



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FARM AND DAIRY.



Fig. 2.—Strainer in which milk is rising as it passes through gauze. large surfaces of the milk are exposed; hence it is important to do this work in a pure atmosphere.

Simple Stable Ventilation L. K. Shaw, Welland Co., Ont. O capital to make his farm and buildings all he would like to have them, is, nevertheless, so well



supplied with ideas that he usually "gets there" without spending much monay. For instance, the vacilitating system that he installed in this old stables is simplicity itself. This dia-stables is simplicity itself. The dia-stables is simplicity itself. The "v" shaped abledds on either all the "v" shaped abledds on either dia the ber and nailed in as above. The sashes were cit out from old im-ber and nailed in as above. The sashes were hinged at the bottom with this system, the cold all choses is an direct draft on to the anish. A shaft in the centre of the stable carrise away the foul air. This is the east method of window ventilation of which I know.



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Pushing for Profits E. Kay, York Co., Ont.

NE of my neighbors is a prince of hog feedors. He grows them so fast that he claims K is a so fast that he claims it is a common thing for growing pigs to slip through a hole in the fence. In the morning and come back a few hours inter so much larger that they can't grow pigs as fast as this. In fact, none of us attempt ho do things that this particular neighbor says he does. I do hallow become the the context I do believe, however, that the only chance of profit Hes in forcing pigs right along from the start, and marketing them at six to seven weeks old

I aim to keep the pigs always healthy I aim to keep the pigs always healthy and eating. They always have access to ashes or bone meal. They are fed said, and their quarters, winter and summer, are kept clean, I find that equal parts of middlings and corn meal make an excellent grain ration, when this is fed accupietes there but where this is fed exclusively there is increased.

When We Market Our Sheep and Swine* Some Sound Practical Advice by J. J. Ferguson, of Chicago

O NTAREO is the premier section, first place you have an antiquated of North America as far as high arystem of buying. There are some grade lambs is concerned. When firms who have buyers of hogs at grade lambs is concerned. When any of our friends are coming from the United States to Canada they are always told to not forget to go. to the King Bdward and get a good Ontario mutton chop, There is something about your air or land that gives it a different flavor from anything we can get across the line. You stock men come over to Chicago and win honors in sheep, and I don't think I can tell you anything about the sheep

I just want to leave one thing with ou: THE MARKET NO LONGER WANTS HEAVY LAMBS. The most tractive lamb, and the one attractive lamb, and the one that brings the best price on the market weighs from 70 to 56 pounds. This year was exceptional, and everything in the shape of lamb realized a good price, but in a normal year the man who brings in a trim, well finished black faced lamb is the man who is that Mack faced hamb is the man who is script to top the market. My friends in Toronto said to me, "Tell the peo-ple at Gueigh to try and get away from the long wool, white faced lamb." They do not kill welk, and they are tailow if you holes them too far. Least year, we had at our storage in Toronto, four car loads of over-weight lamb. We could not cell it on the Canadian mandet, and we sent it it here. We had to sent it it or they not to yodds it for most brokers on South Water Street, and they had to pedde it around for five hrokers on South Water Street, and they had to poddle it around for five days before they could get.rid of it. If you would sequire the habit of watching the market closely, and bring your staff in hedror the big ranh at reasonable weights, you will got the top price. When your lambs weight 80 or 50 pounds you no ask it, then it comes to a subscient of been it comes to a question of whether you want to take a lower price or get the greater weight. In Montana, the buik of the lambs weigh from 85 to 96 pounds, and they renn right through the season. So far as ability to get the greater weight you people of Ontario have the ad-vantage. Across the line we think Ontario is the best sheep land in

Hogs. When Canada holds such a reputa-tion across the water for choice Canadian bacon, it seems idle for a man from the corn belt to talk much about from the corn helt to talk much about bacon. I want to say this: I ballave for all the unfair markets in the world for hogs, you have the worst right here in Ontario. I am limble to get into trouble with my packer friends for teiling you that. In the country points on week-in-advance quotations. If the market goes down quotakions. If the market goes down the man is safe, but he takes a chance of losing if the market goes up. If you are ever going to establish a stable market, your stuff should come to that market in competition with stuff of better or lower grades. If the stuff comes to market under contract with the packer, it is simply a hog when it gets there. For 15 years I have been trying to

A. FOYSTON & SONS

is a tendency to go off feed. Occasion ally, when the appetite of the pigs not so good as I like to see, I add

winter, pulped mangels are fed with the grain. In the cold months, I feed

three times a day, twice a day a thin, warm slop of middlings and corn meal,

and at noon pulped mangels with a little meal. Towards the end or finish-ing period, the corn meal in the ration

little bran to bulk up the mixture.

For 15 years I have been trying to get a discriminating price in favor of the highest grade bacon hog all over this country. I was on the To-ronto market yesterday, and I maid, "What about this hog?" And the buyer said, "Well, that is a hog." I said, "There is a very great difference between these two hogs." He said "We are having and difference aild, "Inference were been hope." He said, "We are buying and shipping to packers all over the country and they are not grading their hops." You peo-ple ought to work through your Live Stock Associations and through your Live Slock Associations and through your various Governmenks, so as te get a standard grade for marketing your, hors, no shat the man who is produc-ing the right kind of hog will get every penny that his hog is worth when it comes on the market.

Best Weight Bacon Hogs.

We find that the idea of the pro-We find that the idea of the pro-ducer does not agree with the packer. I find there is a difference in Toronto as to the weight. I find that one packer will take hacen boys down, to 130 pounds and up to 250 pounds. Our poole have established weights from 170 to 255 pounds. That we shrink is a fair and reasonable weights for ge-ting No. 1 Willshire sides. We still dind a targe aumher of men who think is is more profitable for them to dinab their host to a heavier weight. Now, I am going to say that I do not heliere you can produce a 170 pound believe you can produce a 170 pound hog for any less per pound than that other man who is producing a 230 or 240 weard box new your your year Mer man who is producing a 380 or Me pound how, per pound. Yog have to build up like bone and muscle can has hog before its gets ready to put on weight. Therefore, I think it is more expensive for a man to produce the bog weighing 180 pounds, that hogs weighing over that weight.

news weighing over that weight. I want to leave this one point with you, if I seave nothing eice. GET TO-GETHERE AND WORK YOR AN OFEN COMPETITIVE MAIRSET WITH STUNDADOS AND GRADED WITH STUNDADOS AND GRADED WITH STUNDADOS POR YOUR HIGGS OF DEPENDENT KENDS. If I haven't Gone anything eice, my tipp from Obiesgo will have been worth while.



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O. A. C., No. 72, OATS FOR SALE

Northern grown, good, clean, true to name, from very heavy field. Price, 75c per bus. Sacks free.

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R. H. Crosby, Markham, Ont.

O.A.C. No. 72 OATS Virtuet FOR SALE-Good Clean Seed, true to Form selected from price winning field a year sed from price being select the second second GEORGE MekaGUE, R. R. No. 4, Woodville, Ont.

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O.A.C. 21 barley. Posttively free of weed seeds. Gained a prize smong 22 entries at Guelph. 20

CECIL M. GRAHAM R. R. No. 4, Peterboro, Ont

0.A.C. No. 72 OATS

TOTAC: No. 72 OATS wrethinsent reset Report. No nor-us weed seeds. Germinston To for coal: To clear cost the serbine or Lowest Hill at the pe-sish an pite secks or the in oct-ui bags: This is a good chance and the cost of the best and to cost a grown. FOGTER: MARKHAM, ONT.

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FAR Corr

CAP

CAP SALMON H cold weather, is causing a he Hay, No. 1, is to \$1.25. But now as at an Farmers are g winter work,-

VICTOR

VICTOF TODIQUE B has almost goi it has been a v bad so litle s elever will be would be a ge so high in pri coming out fine Perth last we every way. G five years ago, all now. We is Growers' Asso -D, L

Fifty Year

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fencing, a cream se silo, cement, a war an automobile, mar any other equipmer you'll find their m ANNUAL DAIRY I Dairy. Any one of send you their estate Farm and Dairy in

his guide. Save a young pig, a lamb, or a calf and the book will have been a great profit-maker. It is not an expense but an investment. It is the LIPPINSOIAL, Professor of Veterinary Boiente, Pardus University, Chief Veterinarian, Pardue Dateersity Experimental North America.

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eed, true to te winning o per bush., free. UE, odville, Ont.

Elverything from an to a straw-, shade, nut, and ever-, ornamental vines, roses, ering plants, ragus; guar-k at reason-

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ively free a prize seigh. 90

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No mox-rmination out the fier Lo.b. at 70c per is in cot-d chance the best

M, ONT.



FARMERS' CLUB Correspondence Invited

CAPE BRETON, N. S.

CAPPE BRETON, N. S. SALMON SRIVER, Mar 22.—Continued cold weather, and more snow than usual, is a NOR a tasky drait on feeding stuffs is a NOR a tasky drait on feeding stuffs is a NOR at a start of the start to 51.35. Butter and exps are as high now as at any time during the winter. Furmers are setting well along with their winter work—J. H. MacD.

VICTORIA COUNTY, N. S.

VIGTORIA COUNTY, M. B. TOURGUE AITORS, March 27. - William has alsone some. Taking it all through, it has been a very mild winter. We have been will be all with a sine atraid out would be a great drawback, ased being as high in grees. Brock of all kinds is perchasty week was a great aucons in every way. Grain that took the prise a have we would has took the prise and use a great was allowed and and on one we association for the Province. -0, L

Fifty Years Ago-And Now

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PARM AND DATEY

FARM AND DAIRY.

RICHMOND CO., QUE.

AlcAMONDO 00, QUE. DANVILLE, Mar 97-March set in with heavy tow storms and remained we had the first sprinnait the 25th Then you have been as a set of the source of the source of the set of the source of the sour

WELLINGTON COUNTY, ONT.

WILLINGTON COUNTY, ONT. THAT, March & S., The coards of the first section of the section of the

NORFOLK CO., ONT.

NORFOLK CG., ONT. PORT DURIVERZ., March 23.—March Weather has been very and stormy. Turiness is dull, but a cite and the being of the storm of the storm the being of the storm of the storm the being of the storm of the storm the storm of the storm of the storm the storm of the storm of the storm storm storm of the storm of the store storm of the storm of the storm of the storm of the storm storm of the storm of the storm of the storm storm of the storm of the storm of the storm storm of the storm of the storm of the storm storm of the storm of the storm of the storm storm of the storm of the storm of the storm storm of the storm storm of the storm of the storm of the storm of the storm storm of the storm of the storm of the storm of the storm storm of the st

NEW WESTMINSTER COUNTY, B.C.

NEW WESTWINETER COUNTY, B.C. CIERLIAVACK, March B.S. Croak Croak Croak gan he heard these con-croak Croak and the second the second second second second to the fact that, the from hear awakened to the fact that, the from heard second to the fact that the second second to the second second for the second second term of the second second second term of the second second second second second second second second term of the second second second or the second second second second second second second second second terms of the second second second second order of the second secon

HOWICK-HUNTINGDON AYRSHIRE BREEDERS' CLUB.

HOUSE LINE TODOG L. S. BARTINE STATUS STATUS

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Allow yer kiskin, set a hold for yer kiskin, set a hold To ho wheel and turn it. To ho wheel and turn it. To how yer to have hold the dobrobs from yer even. A yer that yer hold his yer hold yer hold Allwit he shink". Hyes halt the nerve to try, failing the mean balance.

Tuberculosis in Its Relation to the City Milk Supply*

impretor is the control of the health of the corre supplying milk to heapoople. Since supplying milk to are relative terms with a often very difficult to draw that he often very cluded from the milking back cluded from the milking back cluded from the milking to the same as tuberculosis, for it is well known that some tubercular animals furnish as healthful milk as any mon-tibercular animal.

known that some tubercular animals furnish as healthful milk as any non-tubercular animal. Dang before the discovery of the results of anihary significance, and rules had of sanihary significance, what apparently the same organizous bound in the bodies of the various the various bound in the bodies of the various the various the various bound in the variation the bodies of the various the variation the bodies of the various the variation bound in the variation the variation the bodies of the variation the va

Is Tuberculosis Transferable?

In 1901 Koch announced that he did In 1901 Koch amounced that he did not believe there was any danger of man acquiring tuber was any danger of entite, and that anning the second second concerning the use of meat and three messaary from the public health point of view, ne matter how desirable from the asethetic side. Koch based his conclusions ingrely on the fact that he find been unable to produce the dis-case in actile by incettion with or he find been unable to produce the dis-case in cattle by incellation with or-gatisms from a human source. Many did not accept Roch's conclusion as organisms, and during the last eleven service and source the second one in all parts of the work has been done in all parts of the work has been done in all parts of the problem of the in the solution of the problem of the like period in the been done in a like period in the been done in a dike period in the solution of any other question of public health.

He nearm. - The general conclusion from all of this work seems to be that as far at tuberculosis in adults is concerned, bovine tuberculosis is practically negligible. While it is true that the bound the of account has been negligible. While it is true that the bovine type of organism has been found in adults suffering from tuber-culosis of the lungs, it is also true that such cases are very rare indeed.

The Children Suffer.

In the case of children the story is far different. It is thought that shout 10 per cent. of the tuberculosis in children is due to boyrine infection. The bacteriologist has methods at his command by which he can differen-tiate quite accurately whether a given inter uniter and the should be the story of the story o tiste quite accuratel y shether a given pure culture came from a borine or human source. Arm is borine or methods to the study of ving these bers of cultures from all assess of tuberculosis, the above conclusions have been arrived at. There remains no doubt that borine tuberculosis is of sanitary importance and its con-trol is a legitimate part of the work of the milt imspector. The only way in which we can in-mure the freedom of raw milk from

The only way in which we can in-sure the freedom of raw milk from tubercie hacilli is to provide that only catile that do noi react to the tuberculin test shall be used for the production of market milk. Fublic health officials feel the need of the removal of all known tubercular cat-

*Extract from an address before the mernational Association of Dairy and life Inspectors in Milwaukes.

Prof. E. G. Hastings, College of Agriculture, University of Wisconsin NE of the important problems the from the milk-producing herds, and that presents itself to the milk I believe that they are justified in this view.

view. From the information obtained on the slaughter floor it is not probable that at any one time over one-fourth of the cows are afflicted with the dis-case. In such a form that they slimin-ate the organisms. The general health is often not influenced and they might remain profitable org-ducers for an unknown period.

Fifteen to Twenty-five Per Cent. of Cattle Tubercular.

Cattle Tubercular. Cattle Tubercular. In the great milk producing sec-tions of the country it is probable that 15 to 25 per cent. of the cows are tubercular. Their removal and shaughter places a great conomic burden on the farmer, so great that he will not bear it. So, however de-sitrable may be the removal of the re-acting animals, the public health of-ficials encomier the economic problems and progress stops. If any color or state desires to have the tuber-will most and a fair portion of the second a fair produbic that on the aver-age the have on the economic threefourthen he value of the cows as producers of milk.

Curry Comb Prevention

M. C. McDonald, New Westminster Dist., B. C.

A SUBSORIBER of Farm and Dairy not long ago asked for treatment for lousy cows. He stated that his cows were fairly alive

stated that his cows were fairly alive with lice, not milking satisfactorily (could you expect them to?), and very trritable when being milked. I would like to ask that subscriber why his cows are lousy. We have never had a lousy cow in our stable, a lousy animal of any kind in fact, and never expect to have. I believe that likes are almost invariably a pro-duct of unsanitary, conditions in a stable, if the floors are clean, if the stables are cleaned regularly, if the belding is dry and clean, and white-weah und a couple of times a year,

bedang is dry and clean, and white-weah used a couple of times a year, we are in a fair way to prevent the deprodations of cattle lies. One additional touch is necessary... the curry couch and brush applied daily, or as frequently as possible. I find that under the curry comb track-ment the cowe do better, the milk is clean and vermin is assided 1 coucts then the cows do better, the milk is clean and vermin is avoided. I can't tell your subscriber how to get rid of his lice, but I can suggest from ex-perience how he may avoid their future advent if once he gets rid of the present cron. the present crop.

The farmer who gets up earliest is not necessarily the one who succeeds. It is the man who works on a well defined plan who makes good these

Does your harness rust in the stable? If so, look to your ventilation.

What is the use of shocking corn and then leaving it in the field until the wind has blown dirt all through

A good currying will do a horse more good than two quarts of oats, Have a regular feeding hour and stick to it. It means dollars and cents in pocket.

If you have first class stock, be as-sured there is a good market for you. An ad, in Farm and Dairy will find it.

1383 (39)

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HOLSTEIN-FRIESIAN NEWS

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Farm and Dairy is the leading exponent of dairying in Canada. The great majority of the members of the Canadian Holstein-Friesian Association are readers of the paper. Mombers of the Association set to is send items of inter-set to Halatein breeders for pub-lication in this column.

A CHAMPION OVERLOOKED.

DITOR, Farm and Dairy, Owing to an oversight in the office at Guelph,

L an oversight in the office at Guelph, the record of Beile Model Proto-made in March, 1915, was never forward-ed to the secretary's office, and the mis-take was only discovered a short time ago when the champloan in the various Camadian chases were published by the Acceletion.

The record was properly sent on to the merican Advanced Registry and ap-served there last year.—A. C. Hardy, rockville, Ont.

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is loaded full with the toothsome, lasting taste of mint. Every grip of your jaws sends the delicious flavor out in cooling spurts to refresh your mouth, soothe your throat and quench your thirst.

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GOOD SIRE GOES TO NORFOLK A.

COUNTY.

A GOOD SIRe GORB TO FOUNDER. COUNTY. THERE prominent Notatian breaders of the court of the second se

FEW U.S. LABORERS AVAILABLE.

Direct of the Casadian Government to obtain 30,000 farm hands in the United State have mut with initial success, are black and the second success, are black and the second success and consider. Government Associate in this Consider Government Associate in the Mr. White returned to Chicago to-day after a traj to agenatics in lillinois and Mr. White returned to Chicago to-day after a traj to agenatics in lillinois and "Owning to the late moring, farm labor-rra are already comployed in Labor own chelling for the success part," and dir.

1-11. April 6, 1916.



Prices of steady with the domand \$18: No. 2, to \$7. At 3 continue to hay quoted POT The pota Ontarios are store: Delay Montreal qu in car lots. Beans her \$4.40, to \$4.5

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bran, a bran, a brts, \$26 c, \$1.60 ten feed n feed shorts, lie, \$30

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KERS' RES Seam RONTO To

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Market Review and Forecast

Azerii - 6. 1916

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WHAT. The whole distantion is turnishanged. anytiking, the market is stronger, ous the decreased liable to be planted the decreased liable to a constant the decreased liable to be const the decreased liable to be decreased liable to be const the decreased liable to be decreased li

COARSE GRAINS.

COARSE GRAINS. The market is mint and uncharged, which is in a second of the second the second of the second of the the

MILL FEEDS.

There has been a still further advance In bran, which is now quoted at 225; horts 236; middlings, 357; feed flour, bas 31.60 to 31.70; oil cake meal, 233; fuiten feed, 359. Montreal quotes bran, 52; middlings, \$28 to \$30; moulle, \$20 to \$33.

HAY AND STRAW.

Prices of hay on the total market are steady with deliveries hardly recover the demand. Baled hay. No. 1, 817 to 118 No. 2, 314 to 816; baled straw, 56.00 continue (a district), Gogerment Divings continue (a district), Gogerment Divings bay quoted at 339 to 500 66.

The potato market continues firm, Ontarios are quoted \$1.90 to \$1.85 out of store: Delawares, \$2; car lots, 156 ions Montreal quotes Green Mountains at \$1.70 in car lots. Ecans here are quoted, hand-picked, \$4.40 to \$4.50; primes, \$4. The price to

Cure Your Cows

of Caked Udders **Egyptian Liniment** 8 APPLICATIONS GUARANTEED

For Sale Everywhere. Douglas & Co., Mfs. Napance

POTATOES AND BEANS.

SEEDS.

Wholesalers are selling to the country

No	4	red clover, cwt \$26	00	to	\$28	00	
No	-2	do	50	to	25	50	
Ma	12	do	00	to	00	00	
				to	00	00	
Man.	1	timothy, owt 11	00	to	14	00	
240.	а.	do 9	50	to	20	00	

HORSES

Official quotations on horses at local ec-changes are as follows...Heavy drauchts, find to circle years, at occurs...Heavy draughts, nive as and to 2210; lighting draughts, nive as and to 2210; lighting prospect and wageon horses, young and, prospect and wageon horses, young and, sound, 1110 p.250; drives, young and, hocks, 170 to 3125.

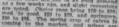
DAIRY PRODUCTS.

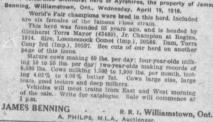
DAIRY PRODUCTS Taking rotices prices drows is studently to harden. Cheese, of cours is the drown of the builter, which has been ordent. this is builter, which has been ordent. this are stocks have been largely used on and the fact that builter is more hicker to the builter, which has been largely used on any stocks have been largely used on any stocks have been largely used on the fact that builter is now hicker to the fact that the fact that the fact that we work, fact is not as 320, and shaker's fact to be. **UNE STOCK**.

LIVE STOCK.

The's have been moderate receipts of the state of the second second second second prices are unchanged, beautifue to the second lines, say e choice beauty steams, which are taken at 82.5 Prove for loads being taken at 82.5 Prove for loads being the second second second second second the second second second second taken at 82.5 Prove for loads being the second second second second second taken at 82.5 Prove for loads a load taken at 82.5 Prove for loads at 85.5 Prove for loads at 100 Prove taken at 100 Prove for loads at 100 Prove they choice taken a should be for \$100 Prove taken a should be

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and meanum seconderes	6 75	to	7.40
do common	6.00	to	6 78
	7 50	to	7 85
do good	6 75	to	7 35
do medium	6 00	to	6 60
Butchers' cows, choice.	6 50		
do good	5 75	to	7 25
do medium	D 78	to.	8 28
do common	5 50	to	5 78
do common	5 25	to	5 50
Butchers' bulls, choice	6 50	to	7.50
		to	6 50
	5 25	to	6 00
Freders, 900 to 1,100 Ha	6.00	to	7 50
do bulla	E 0.0	to	
Stockers, good to choics,	0.20	τo	5 78
750 to 900 Ba.			
do med., 650 to 700 Hos.	9:28	to	7 25
do men., eno to roo ma.	5.75	to	6.95
do common, light	5 25	to	5 75
Cutters	1 75	to	8 25
Canners	7.0		
Miloh cows are not in a			
are noted. Choice ones br	Annual A	0000	SIGURE





GREAT DISPERSION SALE

The celebrated Glenhurst herd of Ayrshires, the property of James Benning, Williamstown, Ont., Wednesday, April 19, 1916.

75 Ayrshire Cattle



lbs. of malk and 10071% lbs. of butter. Would you like her to be the dam of your herd aire? We have her son, sired by a son of "May Echo," for male, will pay you to get our prices before you buy. Write us.

JOSEPH O'REILLY, R. R. No. 9, PETERBORO, ONT

WRITE QUICK FOR A BARGAIN

TEARLING BULL from a helfer with 9.1.5 has built in 30 days ROOM as a two-year-old. Two buils 15 months old Alarier in 30 days ROOM females for sails. These are all from dams with high efficial records. They are soins at a bargain. Our six months old buil has been sold. If you want

W. J. BAILEY, Lyndenwood Farm, Jarvis, Ontario



H. LYNN, Avondale Farm, R.R. No. 3, BROCKVILLE, Ont.

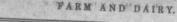
LAKEVIEW STOCK FARM, BRONTE, ONT. Breeders of high-fore to sale Choice Young Built of Various area, all sons of Grand-homes lice, heat Choice Suite of the sale of the sale of the sale lice, heat Cha. Cham. 26 dy, builter our 3/7. old daughter of Lakeview Hat-ler, heat Cha. Cham. 26 dy, builter our 3/100 builter our stuff, and is a half-days a. Joint, Artils, Can. Champ. 3 yr. old builter our stuff, and is a half-mer. Chulen, Proprietor. E. F. OBLER, Proprietor. T. A. DAVSON, Manager. T. A. DAWSON, Mana



75

HEAD





75



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R. R. No. 1, Almont te, Ont

FARM AND DAIRY.

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PRINCE EDWARD COUNTY

BREEDERS' SALE.

HARDE REVEARD COUNTY RECEIPTION OF ANY COUNTY RECEIPTION OF ANY COUNTY THE TEXT RELEASE OF ANY COUNTY THE TEXT RELATION TO THE TEXT RELEASE OF ANY COUNTY THE TEXT RELATION TO THE TEXT

of Helistein cattle which brought 176 and Createned by A. D. Poeter: Inks Byris Changlen, 878, W. B. Trempser. Markened W. G. A. Poster: Mary Korn-Constrants W. G. A. Poster: Mary Korn-the State State State State State (State State State State State (State State State State State State State State (State State State State State State State State (State State State

LEADING OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS, FROM MAR. 1 TO MAR. 15, 1916. Mature Class.

1. Belle Model Johanna 2nd, 14225, 7y. 1m 12d; 567.9 Ms. milk, 23.87 lbs. fat, 37.34 lbs. butter. A. C. Hardy, Brock-

E. G. Bossweitsor, Stratford. James F. Feir Year Class. James T. DeSca, of Crystell Spring. 1786, 40 (2000). Crystell Spring. 1886, 40 (2000). Crystell Spring. 14-day record: 47, 1988. 64; 11064 Bas-14-day record: 47, 1988. 64; 11064 Bas-14-day record: 47, 1988. 64; 11064 Bas-14. Spring. Combined State. J. Faultine Spring. Combined. 20087, 47.

Fairmont Helsteins-

Present offering a fine young bull, ready for service, sired by Ourvilla Sir Teake Colentha; dam, Bessie Banks Marcena, 16.23 lbs. butter at 2 years. Write to-day. Peter S. Arbogust, R.R. No. 2, Mitchell, Out. April 6, 1916.

April 6

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6m, 25d.; 540.4 lbs. mills, 17.66 lbs. fat 27.08 lbs. butter. D. A. McPhee, Van Rieck Hill. 3. Duris of Piessant Valley, 17558 4v

3. Doris of Pleasant Vakley, 17553, 4y 11m. 25d.; 521.5 fbs. mBk, 15.94 lbs. far 21.18 lbs. butter. A. E. Dickle, Centra Onslow, N.S.

1.13 new burtter, A. E. Dielde, Central G. Laura of Notheriand Fun. 1817, 4y, 19m, 246, 403.4 Ba. assis, 13.63 Ba. ful. 13.33 Ba. burter, W. G. Bastey, Paris J. Four Year Class. J. Kowney, 2575.5 G. A. K. J. 1. Strong Strong, Strong Strong, 1997, 25.3 Ba. Burter, W. G. Satter, J. S. K. Malory, 1. Lawneyer May Beilo, 1813. 4y in 28.1, 1. Lawneyer May Beilo, 1813. 4y in 28.1, 1. Strong Strong, 1998, 1997

Briter, Lee & Chard, Villework, F.21.
 Br. Three Year Class.
 Lewarneau Keyne, Trumph, 2034, Schwarneau Keyne, Trumph, 2034, Schwarneau Keyne, Trumph, 2034, Schwarneau Keyne, The Schwarneau Heider, Schwarneau Keyne, 1990, Harmen, Schwarneau Heider, Toll Jas, Schwarneau C., Falt & Schw. Haanline, 2014, Schwarneau Keyne, 1990, Schwarneau Keyneau Keyneau

abov nose muse, zo.op jnz. fnz, jk.000 ina. Bi-skar preserved: by jms. eds. 755, j iso, mulk. eT28, ibs. fnz, jk.65 isa. britts-l. Hibsa, Dathousais Jot, N.B. J. Hibsa, Dathousais Jot, N.B. 4. Augusto Powoh, Miccalthifes Znd, 2670, jy from 304, 425, 9 hz. make, 15,24 jbs. fat, 30,40 ibs. butter, D.C. Flatt & Soon. 54, framewing Mizes, Bellow, 15,62 ibs. fnz, 30,00 libs. butter.

ibs. butter. 14-day record: 3y. am. 32d.; 817.4 lbs. mBk, 31.45 fbs. fail. 85.30 lbs. butter. Elliss. Ruby, Tavisicola, 5. Bivershale Lady Lycons, 21454, 3y. 5m. 5. Here the analysis of the start and the start of the start and the start of the start base butter. Alteon Breas, ChestoryHe. Sr. Two Year Class.

5r. Two Year Cass. 1. Jenny Benavgen Orensby 4th, 25131, 3y. Im. 18d, 1854. Ben. Amaki, 15.31 Im. fat, 34.15 Bas. batter. 14-day record: 3y. bm. 16d, 347.0 Hen. 14-day record: 3y. bm. 16d, 347.0 Hen. 14-day record: 3y. bm. 16d, 1763.1 Hen. 16d, 1763. Bas. 6dy, 76.1 Hen. butter. 16d, 1763. Bas. 6dy, 76.1 Hen. butter. 17. Plast & Ben.

Two Year Class dr.

1. Pontiac Artis Anercie, 31574, 2y. 2m. 29d.; 446.9 ibs. milk, 16.93 ibs. fat, 21.17 ibs. batter.

a builter, 14-day reconced: 29, 2m, 29d.; 865.1 Pba, tilk, 32.74 Man fat, 40.93 Ibn. butter, K. Dalghang, 2. Avondale Pendianc Clothilde, 27271, 4m, 134.; 335.7 Ibn. rethic, 16.40 ibn. 5, 19.25 Ibn. butter, 134. 146.7 Bba.

30-day record: 2y. dm. 13d.; 1547.5 lbs. dik, 57.74 lbs. fat, 72.18 fbs. butter. A.

5. Elinawood Daiay Posch, 36303, 2y. 2m. 14d.: 294.3 Bbs. milk, 14.01 ibs. fat, 18.17 Ibs. fauther. H. W. Parkinson, Haccra-

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17.66 lbs. fat

4y. 4m. 28d fat, 19.09 lb oria, P.E.I

lass. riumph, 20354 affk, 18.76 lbs

a. 30d.; 1020. 23 Hbs. butter a. 30d.; 2070. 26 Hbs. butter 25537, Sy. 9m. 1bs. fet. 22.74

0d.; 1604.9'lbs 1921, 3y. 11m lbs. fat, 22.51

Ls. 22874, 3y 17.36 lbs. fat ad.: 934.5 lbs

lass. 2377, 3y. 1m. 1bs. fat, 33.63 7d.: 2239.0 lbs. 7 lbs. butter

, 3y. 2m. 4d. 4d.; 758.2 ibs.

1.B. do 2nd, 26708, lik, 16.24 lba Flatt & Son. 26714, 3y. 2m. lbs. fat, 20.02

Sd.: 817.4 lbs Ibs. butter 21454, 3y. 5m. Mos. fat, 19.24 ShestervRie.

y 4th, 25193, Mc, 19.31 Iba 8d.: 847.0 Hbs. d.; 1759.2 lbs.

1574, 2y. 2m. d.: 855.1 Hba

ibilde, 27271, ik, 16.40 lbs. d.; 1547.5 lbs. butter. A.

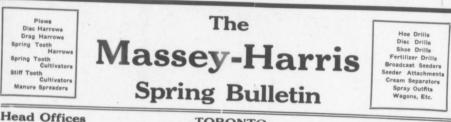
50203, 2y. 2m. bs. fat, 18.17 son, Hagers-

te, 26407, 2y, 3.74 3bs. fat, L; 1656.1 lbs. butter. Dir.

inroh the re-man were re-many in the ry creditable report. I va exceed is while three he header is while u he leader th 37.84 h his record a new Ca

April 6, 1916.

FARM AND DAIRY.



TORONTO

April, 1916

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Spring Machinery for the Dairy Farmer

HOROUGH preparation of the soil, good seed and careful seeding, pay big dividends on whatever the additional expense may be.

If the seeding is not properly done, per-



fect weather conditions are of little help, while, on the other hand, right sowing means a largely increased yield under favorable conditions, and in a bad year may mean the difference between success and failure.

VERYTHING necessary to enable the L progressive farmer to manage the best in the way which will yield the best returns will be found in the Massey-Harris



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Tooth Cultivators, Stiff-Tooth Cultivators, Land Rollers, Packers, Fertilizer Sowers, Manure Spreaders, etc.

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