

VOL. XXX.

NUMBER 28

RURALHOME

PETERBORO, ONT.

JULY 13,

1911.



DON'T EXPECT GOOD CORN UNLESS YOU CULTIVATE IT WELL AND OFTEN

From this time forward the success of the corn crop is dependent to a great degree upon the cultivation it is given. During hot, dry weather, the soil between the corn rows ought frequently to be stirred and kept level—not torn up deep and rough, which will unduly and greatly waste the soil moisture so necessary to the proper growth of the corn. Moisture is the important need of the growing corn, so take care to conserve as much moisture as possible by frequent, shallow cultivation from this time the growing corn, so take care to conserve as much moisture as possible by frequent, shallow cultivation from this time the growing corn, so take care to conserve as much moisture as possible by frequent, shallow cultivation from this time the growing corn, so take care to conserve as much moisture as possible by frequent, shallow cultivation from this time the growing corn, so take care to conserve as much moisture as possible by frequent, shallow cultivations are conserved. tivation from this time on; and let not weeds or grass flourish amongst the corn to rob it of the vital moisture! The photo for our illustration this week was taken on Mr. John Durst's Farm, Huron Co., Ont.

DEVOTED TO

BETTER FARMING AND SANADIAN GOUNTRY LIFE

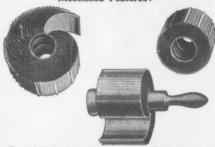
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Two Leading Features

"SIMPLEX" CREAM SEFARATORS

1. The Link-Blade Skimming Device 2. The Self-Balancing Bowl

Note the Principal Advantages of the Above-Mentioned Features :-



k-Blades closed for skmiming, open for clean held by standard for convenience in cleaning.

1. Increased capacity of from 30 to 50 per cent. over the most efficient of previous devices, combined with very clean skimming under a wide range of conditions as to milk, temperatures, etc.

2. Great convenience in cleaning and handling, because the blades do not come apart, and do not have to be reassembled in any particular order.

3. The device being expansible, and fitting the bowl snugly, it can never become loose, or shift in the bowl, and throw the same out of balance.

4. The pressure being transmitted through a series of brass rivets, there is no strain on the blades themselves, and there is no rusting formed by the points of contact of the

The device, being much more efficient, is a great deal lighter and smaller in order to do the same amount of work, making it still easier to handle, and requires less power to run than other devices of same capacity.

D. Derbyshire & Company

Head Office and Works: BROCKVILLE, ONT PETERBOROUGH, ONT.

WR WANT AGENTS IN A PEW UNREPRESENTED DISTRICTS

CANADIAN NATIONAL EXH TORONTO AUG. 26th,

\$60,000 IN PRIZES FOR PRODUCTS OF THE FARM AND HOME

Greatest Live Stock Show on the Continent SPECIAL PRIZES: \$500,00 for Best Animal in Holstein Classes,

ALL ENTRIES CLOSE AUGUST 15th

For Prize List and Information write

J. O. ORR, Manager, City Hall,

TORONTO

Editor, Farm and Dairy,—When glancing over Farm and Dairy of June 29th issue I notice an article written by John McKee, one of our written by John McKee, one of our leading Ayrshire breeders. I wonder what is the trouble with Mr. McKee and with some other Ayrshire breeders that they are trying so hard to knock the Holstein cow? Perhaps it is the fact that a grade Holstein at public auction will sell for nearly as much as their registered Ayrshires; or is it the wonderful advances the Holstein cow is making entirely on her own merits? She seems to be the thorn in the flesh of some of our Ayrshire admirers. Ayrshire admirers.

Mr. McKee sounds another note of

Mr. McKee sounds another note of warning to beware of those Holstein cows for they will consume everything in sight. From hearing Mr. McKee one not informed in these matters would imagine an Ayrshire cow would

would imagine an Ayrshire cow would hardly make a meal for a Holstein. It might not be out of place to suggest to the Ayrshire knockers to pay more attention to the improve-ment of the weak places in their fa-vorite cattle and let the other fellow of to-day is no gradied by the thi-ders through the public press but wants cows that will give most satisfactory. cows that will give most satisfactory returns from feed consumed and labor expended, and from present indica tions and past experiences they have found their ideal in the Holstein cow.

ADMISSIONS AND CLAIMS.

We all admit the good qualities and We all admit the good qualities and didy appetites of the Ayrshire bossic, but the 20th century is an age of big things, and, strange to say, we must in every instance couple the name of a big, vigorous, healthy Holstein with every milk and buther record of the world. We Holstein treeders also adworld. We Holstein treeders ago aumit and appreciate the vigorous appetites of our mortgage lifters. They are capable of consuming large quantum in the capable of consuming large quantum its statement of the capable of consuming large quantum its statement of the capable of t tities of roughage and converting it into milk, and what we most admire, is that her milk and butter fat production is correspondingly larger than her consumption of food (in comparison to other dairy breeds.)

As the Holstein cow has demon-strated that she is superior to all others in the production of milk and butter fat and as the Ayrshire admirbutter fat and as the Ayrshire admirers' only remaining prop is the elaim they make for economical production, it is the earnest prayer of the Holstein fraternity that the Ayrshire men allow the cheap production buff to be tested on its merits by bringing representatives of both breeds together in public test, weigh and value all feed and pool the money, winners to take all, and then I fear the nervous little Ayrshire bossie with her tiny tests will have lost her last claim to first place among the dairy breeds of cattle.

SOME TELLING FIGURES.

To further substantiate my arguments I will submit a statement of food consumed by one of our regis-tered 4-year-old Holstein heifers.

just completed a 30-day official record of 125 1-2 lls. butter from 2,580 lbs. of milk; also her 7-day record is 30.76 bs. butter.

Her daily ration was as follows:

10 lbs.bran worth 9c.
4 lbs. corn chop worth 5c.
3 lbs oat chop worth 4c.
2 lbs. oil cake worth 3c.

19 lbs. meal worth 21c a day, or \$6.30 for 30 days.

In addition to this she received all In addition to this she received all the green grass she wanted, and I think \$1.50 a liberal allowance for this during the month, making \$10.50 total cost of food for 30 days. She produced 2,680 lbs. of milk worth, wholesale at Hamilton, at 16c a gal., \$41.28, leaving a pice balance of

Mr. Flatt Submits Some Figu. 4. \$30.48 for caring for one Holstoin

cow for 30 days.
Smile and the world smiles with you;
Knock and you go alone.
The cheerful grin will let you in
Where the knocker is never known.
—D. C. Flatt & Son, Wentworth Co., Ont.

Thiaking-Not Doing

Editor, Farm and Dairy,-I noticed an expression in Farm and Dairy recently regretting that farmers too often let others do their thinking for them. My experience among farmers is that they do the thinking all right,

is that they do the thinking all right, but the trouble too often is they let ohers do the acting for them.

If they would only do as well as they think, rural Canadians would be nearer getting what they are entitled to. Success to you.—W. K. MacLood, New Westminster District,

Fair Dates for 1911

Canadian Industrial Exhibition, Winnipeg, Man.....July 12 to 22
Inter-Provincial Fair, Brandon, Man...July 24 to 28 Dominion Exposition, Regina, Canada National Exhibition, Toronto Ont......Aug. 26 to Sept. Nova Scotia Provincial, Halifax, Social Provincial, Halitax, N. S. ... Aug. 30 to Sept. 7
Canada Eastern Exhibition, Sherbrooke, Que. ... Sept. 2 to 9
Western Fair, London, Ont. Sept. 8 to 16 Western Sept. Sept Ont. Sept. 8 to 16
Fredericton Exhibition, Fredericton, N. B. Sept. 16 to 23
P. E. I. Provincial, Charlottetown, P. E. I. Sept. 26 to 29

Some Pertinent Questions

Editor, Farm and Dairy,-Country newspapers from one end of Canad newspapers from one end of Canaua to the other have for some months now been publishing articles oppo-lag reciprocity and pointing out wherein the industry of agriculture will receive a serious setback should reciprocity pass. We should stop to reciprocity pass. We should stop to think where these articles come from and who pays for the large advertis-

ing space used.

Why have our protected interests taken such a sudden—a new—interest in the farmer's welfare. As far as I can see, formerly their chief inter-est was to make as much money out of us farmers as possible. And that of us farmers as possible. And this still their chief interest, and it is an explanation of their bitter amosity to the proposed reciproved pact. They feat that we farmers will vet out of the tariff corral.—E. F. Eaton, Colchester Co., N. S.

Items of Interest

The second annual report of the Commission of Conservation has been Commission or Conservation has been received. A vast fund of information with which every Canadian should be in touch, is contained in this report, which may be had on application to James White, Secretary to the Commission, Ottawa, Ont.

Mr. W. H. Bunting, of St. Catherines, has been engaged to conduit an enquiry into the fruit industry in Canada, the information collected to be presented at the Dominion fruit conference next winter. The acreage of the conference next winter. devoted to fruit in the Dominion, and the production and distribution of the crop will be studied.

Prof. F. C. Harrison, former bacteriologist at Macdonald College, St. Anne de Bellevue, has been appointed principal of the college, the position vacated by Mr. Jas. W. Robertson.

Have you forgotten to renew your

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for \$50 plantat cent. on the o Science ment of the fa applied in eno startle a rural Farm and Dair office in Peterh Honolulu, Hawa farm boy, who Hawaiian Islan a visit to the I Some facts in r in these produc are of special i since we farmer sons from them well in convers Hawaiian gover reviewed for the

RESULTS Science has w of the Hawaiian of commercial f ed to the soil tillage, up-to-da of the farms and the management made immense p millionaires, and in receipt of goo Mr. Boswell, a and the condition in the olden day kindly terms of during that peri stated it as his o

Mr. Boswell was clusion as to th A REFL "Your Canadia fied," said Mr. B the crops their fa these crops with soil in the way them keep accou of affairs, and it

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FOR WEEK ENDING JULY 13, 1911.

No. 28

a Year

WHAT SCIENTIFIC BUSINESS AGRICULTURE HAS DONE FOR HAWAII

an Old Peterboro Boy Pays a Visit to the Land of His Youth, and Recounts to the Editors of Farm and Dairy Some of the Wonderful Profits From Scientific Farming on Islands of the Pacific Ocean

ARM land in the Hawaiian Islands sells for \$500 to \$600 an acre. On the larger plantations annual dividends of 60 per cent, on the original capital is the common re-Science enters largely into the management of the farms and commercial fertilizers are applied in enormous quantities, such as would startle a rural Canadian. Recently the editors of Farm and Dairy were honored with a call at their office in Peterboro by Mr. Henry G. Boswell, of Honolulu, Hawaii, a former Peterboro county farm boy, who has spent the last 20 years in the Hawaiian Islands and is back in Canada to pay a visit to the place where he grew to manhood. Some facts in regard to the agricultural practice in these productive islands of the Pacific Ocean, are of special interest to Canadian farmers, and since we farmers with profit may draw many lessons from them, the facts as given by Mr. Boswell in conversation, and substantiated by the Hawaiian government literature, are here briefly reviewed for the benefit of Farm and Dairy read-

RESULTS OF SCIENTIFIC AGRICULTURE

Science has worked wonders on the agriculture of the Hawaiian Islands. The liberal application of commercial fertilizers, crops especially adapt ed to the soil and climate, proper methods of tillage, up-to-date equipment in all departments of the farms and the placing of large areas under the management of one most capable head, have made immense profits possible, has created many millionaires, and has placed the laboring classes in receipt of good wages and comfortable living. Mr. Boswell, after 20 years away from Canada, and the conditions as he knew them on the farms in the olden days, was not given to speaking in kindly terms of any progress that had been made

during that period by our farmers. In fact, he stated it as his opinion that our farms rather than progressing had fallen backwards, our crops were inferior in yield to what they used to be-and Mr. Boswell was not slow in arriving at a conclusion as to the cause.

A REFLECTION ON US FARMERS

"Your Canadian farmers are too easily satisfied," said Mr. Boswell. "They continue to grow the crops their fathers used to grow. They take these crops without an adequate return to the soil in the way of fertilizers, and few if any of them keep accounts. This is a deplorable state of affairs, and it need not be.

"There are great possibilities in the soil if we will but grow the most profitable crops that are available and adapted to our soils, if we will ferfilize and adapt ourselves as best we can to conditions as we find them and place our farms upon a business basis, keep accounts, and know, not guess, as to the profitableness of each and every department of the farm each year."

EXPENSIVE EXPERIMENTAL WORK

According to Mr. Boswell everything about the farms or plantations on these Hawaiian Islands is reduced to a business and scientific basis. Much aoney is expended in experimental work. Individual farmers conduct experimental plots for themselves, the Planters' association expends large sums experimenting with commercial fertilizers and various methods of crop management, and the government also carries on much work of an experimental nature seeking to assist the farmers and make possible a maximum of crop production on the islands.

The main crop is sugar-the sugar cane. Pine apples and other tropical fruits also enter largely into the agricultural production. The soil is volcanic in nature, and the climate being dry, irrigation is practised. Practically all the water used for irrigation has to be pumped and at great expense, since often it has to be elevated 600 feet and more. On the large plantation with which Mr. Boswell is connected 80,000,000 gallons every 24 hours are pumped and elevated 600 feet for irrigation purposes. The pump ng machinery on this one plantation alone represents an investment of \$1,000,000.

HISTORY OF HAWAIIAN AGRICULTURE It was interesting to hear Mr. Boswell tell the history of agriculture in these islands. Here are

Best in the Country

I receive Farm and Dairy regularly. It is a good, interesting and useful paper: the best I have had the pleasure of subscribing for, since coming to this country, some six years ago. I have had quite a number of farm papers since then. I like Farm and Dairy the best. I shall certainly renew my subscription when it is due.—John Roy, Winnipeg, Manitoba.

his words: "Sixty years ago our Islands were inhabited by a semi-barbarous people. They grew cane and produced sugar, but their methods were most crude. To-day we produce more on one acre than was formerly grown on six. In earlier days the sugar was boiled in kettles. There was a loss in sugar averaging about 40 per cent., and two tons of sugar an acre was considered a good yield. Now on our plantation our yield of sugar averages 14.9 tons per acre. No fertilizer was used in those earlier days. Now most liberal applications of commercial fertilizers form the very basis of our prosperity, and we are learning year by year that it pays to apply even more fer-The fertilizer we use costs about \$40 a ton. How profitable it is when applied on our soil you may learn when I tell you that one half ton produced an extra yield in sugar worth \$80. On a plantation of 9,000 acres we apply annually \$200,000 worth of commercial fertilizer.

ACCURATE AND COMPLETE ACCOUNTING

"Of course in connection with our farming the most accurate account is kept of everything about the plantation. There is no growing crops that do not pay. We keep accounts to make sure they do pay, and we are constantly endeavoring to make them better. Everything is run on the strictest business principles. For a general manager we hire the most competent man available.

He is an agricultural chemist, a civil engineer, and a general all-round man of many years' experience. We pay him a salary of \$10,000 yearly, and provide him with a home and servants. Other men, heads of various departments under the general manager, receive good salaries. For instance, we pay our agricultural chemist \$3,000; our sugar boiler \$3,000; our civil engineer \$3,000, and our head overseer \$3,000; in addition these men all have free houses and other concessions that go with them. The mill on our plantation cost \$1,000,000, and we have an average annual output of 35,000 tons of sugar.

AGRICULTURE IN THE PHILIPPINES

"Before the white man took charge and began running the sugar plantations according to the most up-to-date methods, two tons of sugar per acre was considered a good crop. Last year I had occasion to visit the Philippine Islands, and I found that under the management there a yield of two tons per acre and less was the common run. In the Philippines their methods of culture and boiling the sugar are very much the same as they were in Hawaii 50 years ago. They are recovering about 55 per cent, of their sugar, and that is of a very low grade and not marketable as commercial sugar. While there I induced 17 large growers to agree to grow the cane for a mill which we would establish, and we would give them 60 per cent., and do all the work; they now get less than 55 per cent., and have all or the expense and work. These planters in the Philippines have used no fertilizers for 30 years, and there is great possibilities in improvement in the crop production as well as in their methods of finishing the product."

"This is all very interesting," we said to Mr. Boswell, "but of course our farmers do not grow sugar cane and it is the belief of our economists that we are much better off with a large number of smaller farms owned and worked by individual farmers." "Quite true," said Mr. Boswell, "but you can grow sugar beets, and I am informed that when they are grown for your sugar factories they give an average test close up to 16 per cent. Such a crop ought to prove most profitable, and if the business were conducted under a competent head there is no reason why it should not flourish exceedingly.

WAGES OF CANADIAN PARMERS

"Many of the crops your Canadian farmers are growing are not paying them like as would other crops they might adopt. When I was home on the farm 25 years ago, we used to figure up what we made in wages over and above a fair return on our investment, and I think it was something like 121/2 cents a day we got for our hard work. How much more do your farmers make to-day after paying good interest on their investments?

"I am surprised to note that your farmers seem to be afraid to hire men. We believe in capitalizing labor, and of course growing the best money crops available and managing everything in the most economical way, such as is possible on large farms or plantations, under one capable management.

"Your Canadian farmers also do not appre ciate the value of fertilizers. Very little commercial fertilizer is used at all in Canada, and I doubt (Continued on page 6)

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Expert Counsel About Buying Horses

If you are not conversant with the anatomy of a horse you had better not try to buy a horse on your own judgment unless you are purchasing from a respons be house or a well-known dealer who has a reputation to uphold. But if you are an enthusiastic buyer on your own account, perhaps the writer can give you some hints that will be useful, and it may be, save you loss.

After you select the horse which you think has captured your fancy it might be best to have him brought out for a careful examination. Be sure that he is cool and not in a heated condition; remember that horses are subject to every ailment and disease that human flesh is heir to; that he has temperament, disposition, individualty and needs to be very carefully bought.

The first thing you look at is his foot—no foot, 12 horse; it should be on the concave order, a keep sole and not too narrow; this denotes breeding. Run your hand down his forelegs, examine for splints; if on the Lone they will never hurt tim; but if on the tendons drop him like a hot octato, no matter how small the splint.

To save the time and trouble have him jogged

If up to this time the horse has borne inspection favorably put a man on his back and gallop him as fast as he will go to test his wind for a whistling sound. If all right have him put in harness to see if he has any vice. Stable habits, such as wearing, wind sucking, cribbing and halter pulling, must be left to the veracity of the seller's word, as they are only to be detected when the horse is standing quietly in the stable.

In the matter of age four years old is not preferable. You are taking chances with the young horse. I had rather buy a horse at eight than five, as he is then in his prime, and his habits are all developed; if a horse has arrived at that age and maintained his soundness, you can rely upon his being a good one. If he fills the hill, buy him; good horses are searce... "Dick."

Harvesting Alfalfa Without Hand Work

"Most of our neighbors think that we put too much work on our alfalfa when cutting it for hay," said Mr. Hy. Glendinning, of Ontario Co., Ont., recently when in conversation with an editor of Farm and Dairy. "We do put a lot of work on our alfalfa, but very little of it is hand work.

A Three-Year-Old Ayrshire that Sold for the Record Price, \$2,600.

September 1st, 1910, this illustration from a photo taken by an editor of Farm and Dairy was published in these columns over the caption, "An Exceptionally Strong Animal that gives Promise of a Great Future." This bull, Bargenock Victor Hugo (Imp.), one of the Robt. Hunter & Sons' herd, sold at their public auction dispersion sale two weeks ago, for \$£,00 to Mr. P. Ryan, of Brewster, N.Y.

quietly down on the floor, on stone or cement if possible, and look for lameness, and see if his style of going suits you. Now examine his coronets for sidebones; take a look at his eyes, and that very closely. Stand in front of him to see that he has a full chest; glance between his forelegs at his spavin joints; run your hand over his kidneys and press hard as you do so; pass behind him and see that he stands square; examine for curbs (a curb will never hurt a horse after be is six years old); feel his hocks for incipient spavins or bruises on the cap of his hocks, which require a satisfactory explanation from the owner. Don't forget to look for thoroughpins and bog spavins; look carefully at his hips that they are both alike; personally I would never buy an interfering horse, or a horse that shows symptoms

See that your intended purchase is well ribbed up; long backed, narrow-gutted horses are bad feeders and doers and cannot stand their work. See also that he has plenty of neck, good, high shoulders and sloping back. Then proceeding, ask the holder of the horse to walk quick into his flank both ways, turning him quickly; then back him while you look carefully for symptoms of springhalt or cramps. "We have now used the same method of curing alfalfa for three years and have not heard of a better one. We start two mowers in the morning as soon as the dew is off, and cut until two or three in the afternoon. The tedder is started soon after the mowers. We go over the field with the tedder in the afternoon. The alfalfa is raked into windrows that night with a side delivery rake. The following morning the tedder is run lengthwise of the windrows and again in the afternoon. It is left in this condition the second night, tedded the next morning, and then hauled into the barn. As we see a law loader, the only hand work is on the load and a little in the mow.

"It is a general opinion that as much tedding as I give my alfalfa is not advisable in that the leaves will be knocked off. I do not find that the leaves are knocked off. Tedding merely gives the leaf an opportunity to perform its normal function. The function of the leaf in curing hay of any kind is to carry off the water. If the alfalfa is left in the windrow, as is so commonly advocated, the leaves are exposed to the rays of the sun for a long time and are killed. The water then has to come out of the stalks by some unnatural method, and a poor hay results. By constant tedding the leaves are not exposed to the direct rays of the sun for any leath of time, and the alfalfa cures more quickly and mornaturally. I used to avoid tedding senser possible, until one day its struck me that I wan not giving the leaf an opportunity to exform its natural function. I changed my methods the time that it was several years before I autocated it in public; it in public; it in public;

Profitable Lessons From Cow Testing

W. H. McGregor, Prince Co., P. E. I.

Mr. Mitchell of the Dairy Department lectured on dairying here in July, 1909, and induced us to organize a cow testing association. It was 4a gust before we got our equipment. My best on gave in that month 780 bis. of milk; the poons 44c lbs. The same cows in August, 1910, gave 85 and 820 lbs. of milk respectively, having best better cared for during the previous winter adplenty of peas and oats provided for summe feed.

Since we started weighing and testing the migfrom individual cose we do not let anything pevent us from getting the feed in for the oneach night and morning, thus keeping them from shrinking, which they will do very quickly what the grass gets dry and the flies bad, although the shrinkage may not be noticed where the seas are not used.

One thing I have learned since starting a usi is that the most profitable time to have the can freshen is in the fall or early winter. I had head this fact stated time and again, but it never appealed to me until last winter, when I found end by experience. I had a heifer that lost her oil by some accident two months before it was de. She came to her milk and in 12 months abe gue 5,380 lbs. of milk, was dry six weeks and freshened again. This I know is not a large videly any means, but is 2,000 lbs. above the average for the province and is 2,000 lbs. or more bette than she would have done freshening in May.

Another cow that freshened four monthe beds we began to test gave in 14 months without finds ening 8,000 lbs. of milk. This cow, barring as cident, will give about that amount in the set all months if she keeps along as well as she is doing at the present time. Were I not weight he milk I am sure she would not give more that two-thirds of this amount, as she would not be fed as well as we are feeding now when we know what we are getting for it.

We bought a cow some time ago without testing her milk. When she freshened in 1906 at gave a very small amount at each milking: made up my mind right away that she would pell in the fall, or before, if possible. When began to test, the manager of the factory sale me over the 'phone how much I would take in the mount of the milk tests 5.0 per cent." At the end of it year she was only 20 lbs. of fat behind the become, her milk going up to 6.0 per cent fat Needless to say I have not given her to the she follow wet.

We have increased the milk yield several be dred pounds per cow since testing systematical and we have also got a great desire for bene and more productive cows. This desire may be in the mind of every dairyman; they will tell as so at all events. But they are not working be improved stock, for when they are requested in representative of the Dairy Department to be gin keeping a record of the production of the cows they will have some excuse, such as lack time, and that they know their best cows as enough. The time taken does not amount much. When the help get used to weighing 9 milk they rather like it. A Dairyma

The serious flow through until next spers who milk get heat from two years, age covery) as to dried up, har It seems a l

extra at this is absolutely ne est profits, ke keep them m milk next wir we will all fee I know of no practice not to the year, beca-What is the corn, cutting the cows may feed them nov production? 1 next winter to we will then g and the progre and Dairy pap perhaps more.

perhaps more.

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This I find to relished by the peas (these artogether with a enough to out cows milking fulater on, as so then I have lot upon which the three perhaps which the three perhaps which the three perhaps more perhaps more perhaps more perhaps and the peak of t

I have writte who has not ma his cows other t ture. To these better use of a coming out in and feed to the ter to feed it i although if you and extra work just over the fer side of your pa remient, cut it haul it to the co

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If green feed tage of the hay be worth while t mixed hay, or returns fed now meantime have b of suitable fodder feed just now, as mill feeds. A li culating where t larly will soon te may not use and Now that the again and are st to take precauti proprietary mixto Of these I would small quantity at is recommended. some of these, so have found out th On dairy farm are the main sou

count they need as if anyone shou

A Dairyman Writes about Summer Feed T. R. James, Middlesex Co., Ont.

The serious problem of how to keep up the milk flow through the remainder of the season, and until next spring again, now confronts us farmers who milk cows. We may as well expect to get heat from burning coal ashes (as was tried two years ago after the report of a so-called discovery) as to expect a full milk flow from the dried up, hard pastures as are now available.

It seems a hard thing to have to feed our cows extra at this time of the year, but the practice is absolutely necessary if we would make the greatest profits, keep our cows in good condition and keep them milking so that we may have them milk next winter, when, as a matter of course, we will all feed the cows as well as we know how, I know of no greater folly than is the common practice not to feed cows extra at this season of the year, because we are too busy at other things. What is the use of working in the roots and corn, cutting the hay and storing it away that the cows may be fed well next winter unless we feed them now and keep them up to their full production? It will not be possible for the cows next winter to pay as they should for the feed we will then give them. Now is the time to feed, and the progressive dairymen who read this Farm and Dairy paper know as much about it as I doperhaps more.

PROVISION FOR FEEDING.

I count on making provision every spring for just such contingencies as we now face. My silo is large enough that I have some silage left over. This I find to be great summer feed, and it is relished by the cows. Then I have some oats and peas (these are now just ready to be fed) and together with green alfalfa, or when it is not big enough to cut I have the hay, I can keep the cows milking fairly well in spite of the pastures. Later on, as soon as the corn comes into tassel, then I have lots of feed that the cows like and upon which they milk splendidly.

I have written this letter more for the man who has not made sufficient provision for feeding his cows other than what they can get in the pasture. To these men I would say you can make no better use of some of those oats that are now coming out in head than to cut some each day and feed to the cows, all they will eat. It is better to feed it in the mangers at milking time, although if you do not care to go to this trouble and extra work it will be worth while to feed it just over the fence, should the oat field be alongside of your pasture. Should it not be so convenient, cut it and throw it onto a wagon and haul it to the cows.

FRED HAY IF YOU MUST.

If green feed be not available then take advantage of the hay on hand. It probably would not be worth while to feed the cows new timothy, but mixed hay, or clover, would give much better returns fed now than later if the cows in the meantime have been made to suffer want of plenty of suitable fodder. Grain seems rather expensive to feed just now, as is the case with bran and other mill feeds. A little experimental work and calculating where the milk is being weighed regularly will soon tell how much of these we may or may not use and return a profit.

Now that the flies have become so numerous again and are such a pest to the cattle, it pays to take precaution to keep them off. Several proprietary mixtures are to be had at local stores. Of these I would advise anyone to get only a small quantity at the start and of a brand that is recommended. There is danger in applying some of these, so be careful with them until you have found out the effects of the application.

On dairy farms-real dairy farms-the cows are the main source of income, and on that account they need to be well cared for. It seems as if anyone should know this, in their own best

interests, but how frequently we see dairymen blind to their own best interests and allowing their cows-their main source of income-to suffer ! Is it because they think the cows, somehow, will make them profits, or is it because they have never been used to feeding and as yet cannot bring themselves to see the necessity of extra feed and the great profit that comes from it, or, failing profits directly, then the great loss indirectly through having not provided for the cows all they

Seasonable Notes about Alfalfa

Notwithstanding severe winter-killing and the dry, hot summer, alfalfa has again this season given a good account of itself, and has again demonstrated that it is

the peer amongst hay crops. The first cutting was well ready to harvest by the week of June 12th. In most cases reports to hance state that it was cur in that week and the week following. The yield has been most satisfactory, averaging about two tons to the acre. The alfalfa has since come on in splendid shape in spite of the dry weather and is fast making headway towards a second crop. In a year like this one, with ordinary red clover so scarce-it having in many sections been almost totally

winter-killed, alfalfa hay will be, even more than colts each year. Foals four or five months old usual, appreciated by those who have it.

ALFALFA FOR SEED

Some farmers are counting on reserving their second cutting of alfalfa for the purpose of obtaining seed. While it is sometimes very profitable as a seed crop, we all should remember that ordinarily alfalfa in Ontario does not produce over two bushels of seed to the acre, and in reserving a piece for seed one loses what hay he might otherwise obtain from the second and third cuttings, and while he may obtain two bushels of seed or more per acre he is just as liable to fail entirely to obtain seed. On this account one is usually ill-advised in trying for seed, and this year particularly when fodders, clover especially, is likely to be at a premium, it appears to be a wiser course not to save seed, but to take the second and third cuttings for hay.

Jottings from Farmers

I believe in curing clover as rapidly as possible. -C. S. Johnson, Huron Co., Ont,

Hay that is cut and then rained on is apt to become affected with mildew. Such hay should be thoroughly cured before being placed in the mow. It would need to be cured much dryer than hay made under ordinary conditions as I am satisfied that mildew and the mold that appears later in stored hay are one and the same .- Henry Glendinning, Victoria Co., Ont.

Farmers have to a great extent given up the summer fallow. They have found there is a great loss of natural food when they summer fallow as the heavy rains carry away with them the nitrogen, and it is lost. Another argument against summer fallow is that the ground will become devoid of humus. Keep the ground covered, and if you have a good summer crop it will conserve all the nitrogen.-W. C. Mc-Calla, Lincoln Co., Ont.

Experience with Heavy Horses

Chas. Groat, Ontario Co., Ont.

Heavy horses have paid me very well in the past. I have sold a yearling filly for \$250 and a two-year-old, weighing 1,930 lbs., for \$550, and a number of others at good prices. The last two years we have been rather unfortunate taking them to the winter fairs. We captured good prizes, but the colts caught coids, and we lest

I have three mares in foal this year, two imported ones and a good Canadian mare. I only have a small farm and work the mares

Most of our neighbors like the Clydesdale. It would be no use to introduce any other breed in our midst. Most of us try to raise two or three



Heavy Hay@Right on the Brow of a Hillside

Heavy HayRRight on the Brow of a Hillide.

Alfalfa is wonderfully productive, even on clay hilliddes, where with other crops we ordinarily would not expect so luxuriant a Brown and the state on June 3rd by an editor of Farm and Dairy, and shows affalf unto lodging, on a hillside on Mr. H. R. Nixon's farm, Brant Co., Ont. This could be shown and the state of the state

sell from \$115 to \$200, and when old enough to break from \$200 to \$350. These high prices often tempt us to part with our best breeding stock To improve our horses we should keep the best fillies, not sell them, even though tempted with a good price.

The foals are taught to lead while young. They are taken to the dam and let suck once in the forenoon and once in the afternoon. I would rather handle the foals in this way than let them run with the dam for two months or so and then wean them and put the mare to work, as is sometimes practised, and let the foal out on dry pasture to search for a living and fight the flies.

A little separated milk is a good thing for a foal. The last one I raised when 17 months old weighed 1,530 lbs. He got second in a large class at the Guelph winter fair last winter. There is something in separated milk that makes them grow and keeps them healthy

A PLEA FOR THE LIGHT HORSE.

The light horse is all right in its place. I believe every farmer needs one. They are just the thing for fast driving. I like to have a horse fitted for this work, but I do not think everyone is fitted to handle light horses. It takes more time and patience to get them trained properly, and a colt must be well trained nowa-days to be safe for driving around automobiles, street cars, and so forth.

Every farmer's wife and daughters should know how to drive. It is not only handy, but it is healthy for them to drive, and no one has a better right than a farmer and his family to have a good driving horse and carriage. But for a profitable horse to breed I prefer the draught

In my experience of 20 years I have on all reasonably dry soils found that alfalfa winters better than other clovers. I have sowed more than ever to alfalfa this spring.-John Clark, Grey Co., Ont.

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(6) Experiences in Cow Testing

H. Cherry, Haldimand Co., Ont. One does not need to drive far into the country even to-day to find that the good advice given by Farm and Dairy and other farm journals in re-gard to the care of cows is not heeded. In winter herds of shivering cows still huddle around the straw stacks while their owners stoubly maintain that there is no money in dairying.

there is no money in dairying.

I was in the same position myself some few years ago, but decided to specialize a little and await results.

I purchased a set of dairy scales and a four-buttl-Babcock tester. Their combined use was the means of ridding the herd of nine out of 13 of the dairy cown. New years were purchased it. New ones were purchased, including some pure bred Holsteins My dairy cows now average from 8,000 to 15,000 lbs. of milk per cow annually. Formerly from 8,500 to 4,000

lbs. of milk was the limit.

Three of the grades in my herd have for their dam the light-colored cow pictured in Farm and Dairy of Dec. 15th. The cow there idustrated gave 15th. The cow there i lustrated gave her owner, Mr. Wm. Pearce, of Oxford Co., Ont., 11,366 lbs. of milk in eight months. He sold her for \$195. The heifers are no discredit to their

A Combined Rake and Tedder

Prof. John Evans, Guelph, Ont.

Simplicity is not always a characteristic of combination implements, but it is present to a marked degree in the new side-delivery rake and ted-der, which does away with at least implement in hay-making, may be explained that "when

It may the rake drum revolves in one direc-tion, the machine acts as a side delivery rake; by moving a lever, thus reversing the direction in which the drum revolves, the machine is im-mediately transformed into a hay ted-

When the machine is used as a sidedelivery rake, the rake drum revolve



ss Gate is made of stee d into one solid piece. It is of sag nor get out of order.

Peerless Farm and Gates They will save you money be seed repair. We also make lawn ence that stands the test of time

HE BANWELL HOXIE WIRE FENCE CO , Ltd., Dopt.H , Winnipog, Man. Hamilton, Ont.

WESTERN LAND FOR

In areas to suit purchasers, from 160 acres upwards, situated on

or near railways in the Best Wheat, Oat and Stock

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SASKATCHEWAN AND ALBERTA

250,000 Acres to choose from

Prices low. Terms generous and helpful. Special inducements

given actual settlers, and those requiring blocks for coloniz-

ation purposes.

Write for particulars. Reliable agents wanted in every county.

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Branch Office:-North Battleford, Sask.

During 1910 we sold over 133,400 acres; during the past four

years we have sold over 400,000.

in the opposite direction to the road farming. Before your Canadian farm wheels. The rakes collect two swarths ers will ever adopt the most up-to-date cut by an ordinary two horse mower and scientific methods of crop produccut by an ordinary two horse mower and it is claimed will deliver the hav gently and neatly in one loose continuous windrow, in the best possible shape for "air curing," The motion of the teeth is "easy but positive," their action, we are assured, being very similar to the work of hand rakes.

When acting as a tedder the rake drum revolves in the same direction as the road wheels, but naturall, at a higher speed. In this way it shakes a higher speed. In this way is shared the hay gently but thoroughly, with-out any thrashing or injury, the hay lying in two swarths cut by an ordin-

y two-horse mower. The rear castor wheels can be adjusted to carry the frame at varying heights to suit all conditions of soil

ers will ever adopt the most up-to-date and scientific methods of crop production they will have received instruction on scientific agriculture in their schools. Before they can ever appreschools ciale the great importance of commer-cial fertilizer and be able to profit from their use they will require siderable knowledge of agrici agricultural siderable knowledge of agricultural chemistry. This they have not to-day, nor will the rising generation get it from the young girl school teachers who dispense the training in the pub-

"Did Canadian farmers adopt some of the methods that have brought us success in Hawaii, your agriculture would obtain a new lease of life and become exceedingly profitable. Before it will be possible for you to get the returns you might it will require that heights to suit all conditions of soil returns you might it will require that and surface and crops, and coil steel more land be worked under one mansprings are fitted on the stems of the agement. It may be worked cooperactors to lessen jobling on uneven atively, if you wish, but it will not pay ground. The teeth are arranged in so well as to have large areas under



The Tent Covered Sale Ring at the Recent Noted Ayrshire Sale

This illustration shows the tent under which the Robt. Hunter & Sons great e of Ayrshires was anducted.—Photo by an editor of Farm and Dairy.

three rows, with ample clearance between each, and the rake drum is provided with a number of curved rods to assist in cleaning the teeth as they rise from the ground.

Scientific Agriculture in Hawaii (Concluded from page 3)

(Concluded from page 3) if there is a farmer in Peterboro county who has ever spent anything worth while for fertilizer to apply on his land. Even the fertilizer you have in the country is, not appreciated. I understand that large quantities of wood ashes annually are allowed to leave the farms, and they enter the channels of commerce, and are shipped to be used by the United States farmers."

Among other subjects touched upon by Mr. Boswell was that of our edu-cational system, "Farming is like every other business," he said. "There is no end to what one can learn about

the management of a capable head, the management or a capable near, is able to take advantage of the many is economies that may be effected and with a knowledge of agricultural chemistry that will enable him to use

commercial fertilizers at a profit.

"Just a final word on this matter of commercial fertilizers. You know that in the old countries of Europe, where land is much more expensive and profits must be larger per acre than are called for here, large use is made of the fertilizers. I am satisfied that such fertilizers as sodium nitrate superphosphate and potash salts be used here with great profit by your farmers did they understand them d grow the crops they might."

Cow Improvement on a Big Scale S. A. Freeman, Oxford Co., Ont.

Last year our herd of 70 cows gave us 526,042 lbs. of milk, an average of 7,515 lbs. We received for this milk \$6,510.61, an average of \$93 a cow. \$5,510.61, an average of good a correction of the best cows had an average production of 10,426 lbs. of milk, The herd is composed of grades of all

In 1906 the average production of our herd was 5,149 lbs. of milk. They have made a gain, therefore, of 2,366 lbs. each. They have always received much the same care and feeding. This additional flow at the average price that we receive for milk this year. \$1.233/ a \$1.23¼ a cwt., means an added revenue of \$2,237. I attribute this gain almost entirely to weighing the milk from individual cows and keeping re-cords. The poor cows have got to travel. ivel. I set my standard this year 7,000 lbs. each, and sold the nine that did not measure up to this stan-dard. I have 12 two-year-old heifers to replace them. I am not satisfied with my herd yet, however, and in-tend to keep on testing and weeding out the poor ones until the cows have average production of 10,000 lb

In feeding silage is our standby. We grow 50 acres of corn each year. Last year we bought in addition to what we grew on the farm \$606.26 worth of mill feed, mostly bran.

Our Veterinary Adviser

ABSCESS ON LEG.-"One of

if the swelling does not subside rub and bandage when he is in stable. Give regular exercise or and give one dram iodide ofpotas

DIARRHOEA IN CALVES.—My came scouring very badly. Have tried at ing castor oil, reducing the amount wilk fed, etc., but without success, treatment would you recommend.—B 7. Peel Co., Out.

Peel Co., Ont.

Add to the milk given one-fifth of its bulk of lime water. If this doe not check the scouring, give to drams laudanum and one dram each characteristics. of catechu and prepared chalk in little new milk every five hours w til diarrioca ceases, and continue the lime water

A raised sleeping platform in the piggery makes the pigs cleaner and more comfortable.—W. J. Telford Peterboro Co., Ont.

160 ACRES of LAND FOR THE

SETTLER

Large areas of rich agricultural lands, convenient to railways, are now available for settlement in Northern Ontario

The soil is rich and productive and covered with valuable timber.
For full information regarder homestead regulations, and special colonization rates to settlers, write

The Director of Colonization Department of Agriculture, TORONTO



SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

WEST LAND REGULATIONS
Any person who is the sole head of a family, or any ho is the sole head of any homested a quarter section of arise and head of may homested a quarter section of arise and head of the sole of the section of the Any person who is the sole head of a mily, or any male over 18 years of ay homestead a quarter section of available Dominion land in Manitobs, Saska

FARM ****** Harvestin

July 13,

Rédécéde

We cut ou can be stripp and the thur We cutting tached to the Lotton. The I lowed to dry the seeds bauling the with cotton. In case it r

field we do hasten drying crop. A bus would be los handling. It very gently.

Secret of Underdraini

the problem of and securing l The point is ing lette Dairy last wee erville, of th Brockville, On A few days Stafford's of Lyn, Ont., a much intereste wheat.

pulled by the Sin. in length. Mr. Staffor of the county nent farmers in been a strong a ing. These six were well sum son, plowed for and harrowed sary, manured acre, and sowe September. A visited Mr. Sta indication that average yield of but best of all t grass were com To the write striking exampl oy summer falle

This season mer-fallowing 10 isfied that by a pletely eradical ther noxious w this case is ver Stafford would information to a of cultivation a has Stafford on this ing mustard, etc luction of th many farmers i well repaid for

tivation.

Management Information fo

When weather infavorable the When this occur and the following the case may be. successful trial d If the leaves

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FARM MANAGEMENT 1111-1222222222222222222

Harvesting the Alsike Crop

Hy. Glendinning, Ontario Co., Ont. We cut our alsike the first half of July. When one-third of the heads can be stripped off between the finger and the thumb is the best stage for cutting. We use a clover table atcutting. We use a clover table attached to the cutting bar with a false lation, which saves the seed that shells. The bundles of alsike are allowed to dry well, but are not stirred, as the seeds shell out readily. In hauling the wagon rack is covered with cotton. Threshing should be done the next day after hauling if

possible.

In case it rains on the alsike in the field we do not throw it about to hasten drying, as we would a forage crop. A bushel of seed to the acre would be lost with a little rough handling. It may be turned over, but we can't! very gently.

Secret of Good Crops Few Weeds

Underdraining offers a solution to the problem of keeping down weeds and securing heavy yields from crops. The point is well illustrated in the Dairy last week from Mr. N. G. Summerville, of the D. H. Burrell & Cc., Brockville, Ont.:

rockyllie, Out.:

A few days ago I visited at Lieut.bl. Stafford's farm in the vicinity
Lyn, Ont., and while there was very much interested in a six acre field of fall wheat. Two stalks of this wheat pulled by the writer measured 5ft. Sin. in length.

"Mr. Stafford, who is an ex-warden of the county and one of the promi-nent farmers in his section, has always been a strong advocate of underdrain-

been a strong advocate of underdraining. These six acres are tile-drained,
sere well summer-fallowed last seasen, plowed four times, and randalled
and harrowed as often as was necessary, manured with 12 loads to the
are, and sowed on the first day of
Satianhar. At the are, and sowed on the mrst day of september. At the time the writer visited Mr. Stafford's there was every indication that he would have an average yield of 50 bushels an acre, average yield of ou busness an acre, but best of all the mustard and scutch grass were completely killed. "To the writer's mind this is a very striking example of killing bad weeds of summer fallowing and proper cul-

This season Mr. Stafford is sum-

This season Mr. Stafford is sum-ser-fallowing 10 acres, and he is sat-sided that by so doing he can com-pletely eradicate the mustard and other noxious weeds. The example in this case is very striking, and Mr. Stafford would be willing to furnish information to any one of his method of cultivation and underdraining. 13 "What has been done by Mr. Stafford on this six acre field in kill-iar mustard, etc., and increasing the

Stanford on this six acre need in kin-ing mustard, etc., and increasing the production of the soil can be done by many farmers in his section and by following his methods they would be well repaid for their labors."

Management of the Alfalfa Field

Information for the management of the alfalfa field after it has been seeded is given by O. O. Churchill, agronomist at the Oklahoma Fement Station in the following d form ;

densed form:

When weather conditions are unfavorable the young plants may discuss this occurs reseed on the same land the following apring or fall, as the case may be. Do not let one unsuccessful trial discourage you.

If the lawage turn vellow or rust

If the leaves turn yellow or rust badly, or if severly attacked by insects, or if weeds grow rank and shade the young plants, it should be clipped. Clip whenever the plants begin to

nesses descent blossom even during the first year.

Use a spring-tooth harrow, a re-novator or a disc harrow in the spring novator or a disc harrow in the spring just before such as the stress of just after a crop is more of them the soil becomes hard and complete such as the such as

crop is grown for hay than when the field is pastured.

Do not pasture at all during the



The Way Alfalfa Grows in Peterboro Co.

The alfalfa here illustrated is on the The alfalfa here illustrated is on the farm of W. G. Sanderson, Peterboro Co., Ont. The photo was taken on May 24th, and was then almost ready for its first cutting. This is a crop the value of which Peterboro county farmers are just becoming to appreciate.—Photo by an edisour of Farm and Dairy.

first three years, or until the alfalfa

after mowing, depending upon the weather conditions

weather conditions.

When a seed rop is desired, the first crop should be removed and then the plants allowed to go to seed. The production of seed depends very largely upon the weather conditions and upon the thickness of the plants. The seed crop may be moved and raked the same as the hay crop, and most of the seed can be saved by an ordinary threshing machine.

Feed this valuable hay to good stock; you cannot afford to sell it.

Ventilation of a Cow Stable

Ventilation of a Cow Stable
Editor, Faum and Dairy—I think
that it was in Ferm and Dairy that I
read recently about giving ventilation
through the fooder stored above the
cattle over an open ceiling. I consider
this a greatmistake. It will destroy the
quality of the fodder. The ceiling in
my stable is double boarded with
neavy tar paper between.
I have just built a new cow stable

heavy tar paper between.

I have just built a new cow stable 40 by 40 feet, with nine and a half feet between the cement floor and the ceilings. I put in a number of windows 3½ by 6 feet, opening from the top for ventilation in warm spring days, besides ventilation through the hay chute, 4½ by 4½ feet, and other ventilators.—W. A. Oswald, Brome Co., Que.

Harrowing vs. Prayers for Rain

"If I were to come onto your farm and set 750 teams to work for a week hauling water onto a quarter section at the rate of four tons a day, I would at the rate of four tons a day, I would then only put on as much water as evaporates in a week when there is a good molature content in the soil." Such is the very striking illustration used by President Worst of the North Dakota aggicultural college of the great amount of water lost by evap-oration.

A thorough harrowing will stop this evaporation and save the moisture for the crop.

first three years, or until the alfalta becomes thoroughly established.

The alfalfa crop should be cut whenever five or 10 per cent. of the plants are in blossom. A better fat to pay for her feed and is-lor; this method of telling when to mow is to watch the base of the plant and cut whenever the little buds show that a new growth is started.

Allow the plants to wilt but not to Lecome too dry in the swath, then rake and cure in the window or in blunches.

Stack or put in the barn when curred, which will be about one week

TWO in ONE

(7)

Stratford Rope Extension LADDER

The rope is so arranged that by unsnapping it from the top section the ladder can be separatto form two single ladders. The hooks automatic

ally lock at every round and unlock between the rounds.
These ladders as

strong, light, easily operated, durable, and convenient, a necessity around the house and farm build-

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THE STRATFORD MFG. CO. LIMITED STRATFORD, ONT.

We make all kinds of Ladders, Lawn and Porch Swings and Seats.

WATER-EVERYWHERE



IN YOUR HOUSE BARN CARDEN OR FOR FIGHTING FIRE

STICKNEY CASOLINE ENGINE

Will pump water for you and put it just where you want it. It is the simplest engine on the market. It starts easily and never balks.

Our booklet No. 57 gires you a complete course in gasoline engineering. Send a post card for it to-day. IT 18 FREE.

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Particulars.

"Many a dollar is lost by putting off until to-morrow. Send for catalogue to-day."

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No building material like this— "METALLIC"

is superior in every way. It is most economical-is easy and quick to lay or erect, saving expensive labor,

Steel Shingles and lasts a lifetime without continual repairs. Lightning, rain, wind or snow has no effect on "Metallic"—it is WEATHER, FIRE AND RUSTPROOF, the best material for all buildings.

Look over this list—all made from the finest quality sheet steel

EASTLAKE" METALLIC SHINGLES. On buildings for 25 years, and still in perfect condition. "METALLIC" CEILINGS AND WALLS. A handsome, sanitary decoration-lasts a lifetime.

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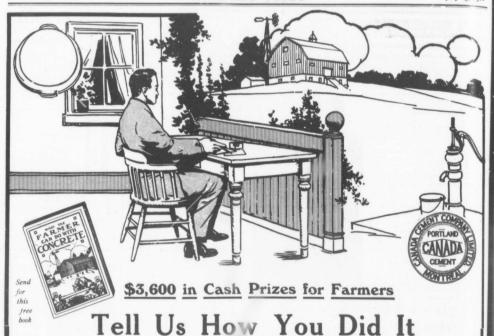
"MANITOBA" STEEL SIDING. The best for large buildings, elevators, mills, storehouses, etc.

CORRUGATED IRON—GALVANIZED OR PAINTED.

For implement sheds or barns, fireproof and durable. You should read our interesting booklet "EAST-LAKE METALLIC SHINGLES" and our new

and our new Catalogue No. 70. A post card with your name and address will bring them to

MANUFACTURERS



You may win prize by doing so

CPPOSE your friend Bob Wilson, on the next concession, "pulled up" at your front gate on the way back from market and asked you about that silo or barn foundation you built, you would be glad to tell him, wouldn't you? And it wouldn't take you long either, would it? And, as a matter of fact, you'd find as much pleasure telling him as he would in listening-isn't that right?

First, you would take him over to view the silo or barn foundation. Then you would start to describe it-its dimensions-the kind of aggregate used-the proportions of cement used-number of men employed-number of hours' working time requiredmethod of mixing-kind of forms used-method of reinforcing, if any-and finally, what the job cost. So that by the time you finished, neighbor Wilson would have a pretty accurate idea of how to go about building the particular piece of work which you described.

Now, couldn't you do the same for us, with this differencethat you stand a good chance of getting well paid for your time?

In Prize "D" of our contest, open to the farmers of Canada, we offer \$100.00 to the farmer in each province who will furnish us with the best and most complete description of how any particular piece of concrete work shown by photograph sent in was done. The size of the work described makes no difference. The only important thing to remember is that the work must be done in 1911, and "CANADA" Cement used.

In writing your description, don't be too particular about grammar or spelling or punctuation. Leave that to literary folk. Tell it to us as you would tell it to your neighbor. What we want are the facts, plainly and clearly told!

Canada Cement Company, Limited, Montreal

Sounds simple, doesn't it? And it is simple. And surely it is well worth your while when you think of the reward in view.

Now, sit right down, take your pen or pencil-fill out the attached coupon-or a post card if it's handier-and write for the circular which fully describes the conditions of this, the first contest of the kind ever held in Canada.

Every dealer who handles "CANADA" Cement will also be given a supply of these circulars- and you can get one from the dealer in your town, if that seems more convenient than writing for it.

Contest will close on November 15th, 1911-all photos and descriptions must be sent in by that date, to be eligible for one of these prizes. Awards will be made as soon as possible thereafter. The decisions will be made by a disinterested committee, the following gentlemen having consented to act for us, as the jury of award: Prof. Peter Gillespie, Lecturer in Theory of Construction, University of Toronto; Prof. W. H. Day, Professor of Physics. Ontario Agricultural College, Guelph; and Ivan S. Macdonald, Editor of "Construction."

Having decided to compete for one of the prizes, your first step should be to get all the information you can on the subject of Concrete Construction on the Farm. Fortunately, most of the pointers that anyone can possibly need, are contained in our wonderfully complete book, entitled "What the Farmer Can Do with Concrete." A large number of Canadian armers have already sent for and obtained copies of this free book. Have you got your copy yet? If not you'd better send for it to-day. Whether you are a contestant for one of our prizes or not, you really ought to have this book in your library. For it contains a vast amount of information and hints that are invaluable to the farmer.

send full particular

Address ...

subsoil is to ger from to from too litt cover crop A sandy soi diffe sandy soil v first should season than his trees an treatment th

July 13 ****

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Orchard Cultivation-Cover Crops

W. T. Macoun, Dominion Horticul-turist Ottawa

We must regulate our methods of orchard cultivation according to the differences in soil and climatic condi-tions with which we have to contend. Too much general advice as to the mode of procedure in orchard culti-vation has been given. And the most of us are all too liable to follow this

matter what kind of a soil we have, however, we can lay it down as a rule that we should start to culti-vate early. When to stop cultivation a rule that we should start to culti-vate early. When to stop cultivation and put in the cover crop depends on the condition of the subsoil. If the subsoil is too moist, there is more dan-ger from too much cultivation than from too little. In this case put down a cover crop just as soon as you can. A sandy soil with a sandy subsoil redifferent treatment than quires different treatment than a sandy soil with a moist subsoil. The first should be cultivated later in the season than the second. Every orchard man, however, should watch his trees and decide for himself what treatment the orchard requires.

treatment the orchard requires.

With most soils a leguminous cover crop in the orchard is desirable, but if the soil is very rich, leguminous crops may be injurious in that they will cause excessive wood growth and deter ripening. Clovers and vetches are the cover crops in universal use.

At the Central Experimental Farm At the Central Experimental Farm we have had good results from summer tares, sown at the rate of 40 lbs. to the acre. The advantage of tares is that they will grow until the land is frozen in the fall. Most cover crops, if they do not get a good start owing to dry weather, are killed by the first forst and the ground has no adequate exercise. Tarse, even without a good covering. Tares, even without a good start, will make a good growth in the fall after other crops have been

killed.

Lately, also, we have been using rape to mature the wood, as in our rold climate proper ripening is very important. It is sown at the rate of five pounds to the acre, and plowed mades in the acre, and under in the spring.

Thinning Fruit

The careful orchardist should now be prepared to conduct systematic and rapid thinning of his tree fruit. Most trees set more fruit than they can bring to maturity without interfering with their production in the future. While thinning seems to be a large task and also expensive, it is greatly to be recommended if best results are expected. Do not delay

WHERE WILL YOU GO THIS SUMMER?

if you desire rest and recreation, why

"THE RIVER ST. LAWRENCE TRIP?"

Folders descriptive of the Thousand Islands, Rapids, Montreal, Quebee, Murray isay, Tadouan, the far fame Saguens, on application to any Railway or Steam, on application to any Railway or Steam, on the Saguest of the

FOR SALE AND WANT ADVERTISING

HORTICULTURE thinning until the fruit is too large. Start to thin when the fruit is about the size of a hazelnut or as soon as the grower can determine which is as the grower can determine which is the best on the spur and after the early drops are over. One fruit to a spur is sufficient. See that the fruit is not allowed to remain on spurs closer than the spread of the hand. This, however, cannot serve as an ac-curate guide on all classes, for some trees are able to bring to maturity maps fruit than others.

more fruit than others.

A knowledge of the yield in past years is quite essential to aid in judicious thinning. If the fruit is care-

fully thinned each year and the tree allowed only to mature that which will not overtax its constitution, it should Lear a crop of normal fruit annually, other factors being favorable.

Some growers prefer to use small cissors or other specially devised instruments, while some prefer to pull out the undesirable specimens with the fingers.—W. H. Wicks, Idaho Experiment Station.

POULTRY YARD

******* White Diarrhoea in Chicks

The losses from white diarrhoea of chickens in Canada each year amounts chickens in Canada each year amounts to millions of dollars. Heretofore, little has been known even of the nature of the disease, and poultrymen have been in the dark in fighting it. Investigations at the Storrs Agricultural Experiment Station, Connecti-tural Stoneburn, in Program of the Stoneburn, Some of their Exercising Millorum. Some of their factorium millorum. Some of their Exercising Millorum. is due to the specific organism, Bac-terium pullorum. Some of their con-clusions as to the spread of the dis-ease are as follows:

1. The original source of infection is the ovary of the mother hen.

2. Eggs from infected hens contain

2. eggs from infected neas contain the organism in the yolks.
3. Chicks produced from infected eggs have the disease when hatched.
4. The disease may be spread through the medium of infected food and water. Hence normal chicks may acquire it by picking up infected droppings or food contaminated

5. Infection from chick to chick cannot, apparently, take place after cannot, apparently, take place after they are three or four days of an ended to the second they are three or four days of a second cannot be seen as assistant and the second that the second they are the second to the second the second the second to the second the second

the breeding pens is perpetuated in this manner.

8. In all probability infection does

ot pass from adult to adult.

9. Infected hens are apparently our layers, especially in their second and subsequent laying seasons.

July Poultry Pointers

Do not let up in your warfare against the destructive louse army. Lice are working havoc, and too se-vere measures can not be adopted to destroy them.

destroy them.

Fifth is just the right condition for their thrift. Lice and disease go hand in lahelpet chicken coops.

Clean up the droppings daily; disinfect the premises every week, and in this way the enemy will be subdued, if not extinguished.

WO CENTS A WORD CASH WITH ORDER
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order that they can be kept growing.

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HARDWOOD ASHES—Best fertiliser in should now be disposed of before they can be kept growing.

All the old stock that is not wanted should now be disposed of before they can be kept growing.

All the old stock that is not wanted should now be disposed of before they can be kept growing.

To Get Hens to Lay in Winter

Prof. J. Dryden, Corvallis, Ore. To make the hen lay in winter in To make the hen lay in winter is the real problem of success with poultry; yet its solution depends up-on the solution of other problems. It is not merely a question of caring for or making the hens lay. The problem goes back to the making of the hen. If the hen were made right there would be little trouble in making her lay. How to make the hen lay in winter resolves itself largely into a question of making the hen.

winter resolves itself largely into a question of making the hen.

I am inclined to think that those who say that the raising of the chick is the hardest problem come near "hitting the nail on the head." To get a profitable egg yield under any conditions, the flock of layers must be frequently renewed. The old hen doesn't pay. For commercial purposes it seldom pays to keen her more than doesn't pay. For commercial purposes it seldom pays to keep her more than two years. This means that in a few years the farmer has raised several generations of fowls, and any matake in the breeding or raising is very soon evident. To be successful a ponttry raiser must be able to maintain of spring with the same vigor and vitality as the parent; otherwise, there would soon be no eggs in winter because of lack of constitutional vigor in the stock.

But it is not all in the raising.

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STEEL TANK CO, TWEED, ONTARIO

There is probably more in the breeding: and it is not so much a matter of the breeds. No matter how they may be raised, fed and cared for, some hens won't lay, because they have not the breeding or the laying capacity. On the other hand, some will lay, almost in suits of needeet; that is a most in spite of neglect; that is a question of breeding.

SOME HISTORY about Typewriters



Modern and Ancient

CHAPTER NINE

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FARM AND DAIRY

PETERBORO, ONT.

A GALA DAY FOR DAIRY CATTLE Dairy cattle are coming well into

their own. Recent auction sales have witnessed record prices being paid for dairy stock. Two weeks ago at the Robt. Hunter & Sons dispersion sale of Avrshire cattle several new records were established

High prices are being paid not alone for any particular breed of dairy cattle. At recent sales on the other side of the line, among which might be mentioned the Guernsey sale at Villa Nova, Pa., the prices paid for animals were record breakers. The same is true of the auction sale of Messrs. T. S. Cooper & Son, noted American breeders of Jersey cattle. Holsteins have sold well and for record prices; now the Hunter sale of Ayrshires, where an animal, as reported in Farm

\$40,215, or an average of over \$343.50 each, cannot help but renew courage in the hearts of dairy cattle breeders and cause an increased interest in dairy animals.

Great inspiration was afforded those breeders who attended the Hunter sale. Some present were heard to avow their intention of getting more strongly into the business and importing some of the best stock from Scotland. Far as the reports of this and similar events are read will the influence for better dairy stock be carried.

A gala day has dawned for dairying. Greater advance yet may be expected. The path has been blazed, the limit not yet reached, and there is every encouragement for those who admire and breed the good individuals of any of the leading dairy breeds. Let's all unite in a grand boost for dairying!

MUST FEED EXTRA TILL NEXT MAY

Again owing to unfavorable weather conditions, common, though differing in degree to every summer season, we dairymen if we would maintain the milk flow must resort to supplementary feeding. Happy are we if, in the light of former experience, we made provision last spring for supplementary feeding and now have suitable fodders wherewith to supplement the pastures and maintain the moneybringing milk flow

In some parts of Western Ontario,

notably Brant county, the situation is unusually severe this season. Pastures have become hard and brown even where they are not short and the milch cows must be fed. Spring seeding of clover has been almost a total failure, and there is but very little old clover meadow to provide a second growth; hence no matter what the weather conditions may be from this time forward short pastures even in late summer and fall are bound to prevail. Mr. H. R. Nixon, a dairy farmer at St. George, told one of our editors who was at his place on Dominion Day that he would be obliged to feed his dairy cows from now on until late next May. He, like many other dairymen in this district, has provided for such a contingency, and now with ensilage, oats and peas, alfalfa and later on with green fodder corn, and again with ensilage, will be able to cope successfully with periods of drought, short pasture, and partially failing hay crops.

Good dairymen take no chances from this time forward with their cows not getting the feed they need to produce profit. As pastures fail they know that it pays and pays well to provide other feed for the cows rather than to suffer them to slacken off in their flow, which, once it slackens, can hardly, if at all, ever be regained during that lactation period. Dairymen everywhere are well advised in falling in with the modern practice in this respect and attending to the wants and comforts of their cows, thereby giving them the opportunity to do what they surely will under these essential conditions-produce a and Dairy last week, sold for \$2,600, steady and profitable income.

LAND-SEEKERS-TAKE HEED

As the harvest season again approaches people in the west are developing their characteristic uneasiness about garnering the crop. This year with the prospect of a bumper erop and little labor to handle it, unusual concern is being evinced in the labor problem and the call has been sent forth for laborers for the harvest fields. The harvest excursions will shortly be announced, and much of the good blood of Ontario and the eastern provinces will "trek" west and take advantage of the call for harvesters as an opportunity of see ing the country. Those who go west to help with the

harvest and to see the country, possibly with a view ultimately of homesteading free land and settling in the western country, should not forget that in the great clay belt in Northern Ontario are opportunities surpassing those of the west for the homesteader. On this point Mr. Frank Moberly, C.E., of Barrie, who has recently returned from the west, where he has been this year to see how the homesteaders were getting on, states that he is more than ever convinced that the settler in the clay belt has in many things an equal chance with the prairie settler and in others a great advantage. In the matter of fuel and water, the Greater Ontario settler is away ahead. He has as good and a more lasting soil his land is timbered, which gives him shelter and a marketable crop while clearing the land; he has a ready cash market at hand in supplying the railways, mining camps and lumber camps and he is 1,500 miles nearer the markets of the world, which gives a great advantage in freight rates. Railways now traverse the clay belt east and west, and north and south, besides which it is cut in all directions by great waterways.

The intending settler of small means may well look towards Greater Ontario with its many advantages over the west. He should think long and soberly, in the light of all the evidence, before risking his all on the uncertain homestead land of the prairies. Ye who are going west, take heed!

MAKE DITCHERS DUTY FREE

Traction ditchers are not made in Canada, yet they are dutiable at 17 1-2 per cent. This duty adds approximately \$250 to the cost of the ditcher to Canadians.

Protection of home industries and the collection of revenue are said to be the objects of our customs tariff. The tariff on ditchers does not come under either class. Since they are not made in Canada, there is no home industry to be protected. It can not be that the duty is maintained for revenue purposes because this added cost makes the number of ditching machines imported practically nil. The only reason apparent why a duty is imposed on ditchers at all is that it happens to come under a general classification in the tariff schedules that reads as follows: "Portable engines half.

"farm purposes, 17 1-2 per com-An exception should have been made from the general classification for traction ditchers.

July 13, 19

Tile draining if installed needed would result in an increase of millions of dollars to Canada. In Ontario alone there are over 5,00 .000 acres of land in need of tile draining. Investigations carried on by the Ontario Agricultural College demonstrate that crops from tile drained land yield an average increase in annual value of \$23.65 over crops on similar land, not tile drained. Even were the average increase in value of the crops only \$10 an acre, a complete system of tile draining on the farms of Ontario would mean \$50,000,000 of annual added value; hence it is important that the drainage should be encouraged.

The future of tile draining depends largely on the traction ditcher. The scarcity and high price of labor renders manual labor too expensive for digging the ditches. We must have machine ditchers.

With the price of the ditching machine increased by \$200 or \$300 through the workings of a tariff, which does not protect home industry, and is so high that it shuts out the importation of the machine al. most completely, progress in tile draining must perforce be very slow. The removal of the duty on ditching machines would be of great value to the farmers of Canada. An amendment to the tariff schedule already quoted should be made whereby traction ditchers could be imported free

If there is any secret about getting a good corn crop after it is once planted-a suitable variety having been

sown on well prepared A Corn and fertilized soil-it is Crop Secret that the corn be not too thick and that it

receive frequent cultivation, thereby conserving the moisture necessary for the growth of the crop. The cultivator needs to be kept on the move from this time forward and each time it is sent through the corn rows stirring the surface soil and leaving a light earth mulch a considerable amount is being added to the ultimate yield, this increase being much in excess of what it costs to obtain.

Pork Packing Profits (Hamilton Times.)

Mr. J. W. Flavelle, Toronto, is one of the men who pretend to believe that Canadian industries stand to suffer from the effects of the reciprocity Mr. Flavelle's agreement. care is the William Davies Pork Packing Company, and as that company of bonds at 6 per cent., the company official statement may help us judge as to whether it is really fering infant

It is stated that the net profits of the company have been \$268,000 per annum. The further information is fforded that for the past the earnings have averaged over per cent, on the common stock company, and sufficient to pay bond interest over three times The people of Canada wil "with boilers in combination, horse shed many tears over the hardships "power and traction engines for of such "infants."

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Cold m cream. give a high test 3. If the faue s partly shut what clogged, a some hair, or d the feed; ar because the mill as fast as usua centrifugal force longer time.
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Creamery Department

Patter makers are invited to send conributions to this department, to eak quasilines on matter relating to butter making
and to suggest subjects for discussion.
Address letters to Creamery Department.

Variation in Cream Tests

ariation in Cream Tests give that Farm and Dairy has al-advocated the payment for milk and on the butter fat basis. I myself, ofere, have always thought that this could be a supported by the configuration of the supported by the supported by the configuration of the supported by the supported by

reserved at thin

ream.

7. If a small particle of dirt becomes lodged in the cream-screw it will change the test, producing a thicker cream.

thicker cream.

8. When the separating has been done, the cream should be set at once in very cold water to cool it down. This, of course, furnishes excellent cream, not only for butter-making purposes, but for house use as well: and often the housewife, little thinking of the effect it will have on the cream test, goes out in the morning and dips off a couple of cupfuls from the previous night's skimming. The thickest cream rises to the top, and two cupfuls taken from the top after standing will materially lower after standing will materially lower the test—much more than one would at first imagine

Dairy Export Trade for 1910-11

the last few weeks seems to confirm be incredulty. Should it varyl-N.D. Mr. J. A. Ruddick, Dominion Dairy Commissioner, has recently published A very anull variation in conditions the separator faster port trade in dairy produce for the actuary that the condition of the last produce will cause a variation in the ly war ending March 31, 1911, and a



One of Many Fine Creameries of the Lastern summany.

One of the best creameries in the Eastern Townships of Quebec province, and
one of the largest in Canada is the one at Adamsville (Brome Co.) here illuscare of the largest in Canada.

Eastern Townships butter has the reputation of being the best in Canada.

Eastern Townships butter has the reputation of being the best in Canada.

ream test. There are so many factors that determine the test of cream at that may cause a wide variation from week to week that it is possible for the test to vary where the testing is done with absolute accuracy. There are at least eight reasons why the farmer or dairyman does not always and still may get all though the cream from his hand separator. The cream from his hand separator will be cream from his hand separator.

cream from his hand separator.

1. Often a change in operators will cause a variation in the richness of the cream. One may not turn as fast as another; and, the faster a separator is turned, the higher will be the cream test. It will be higher, but there will be a smaller quantity of cream; and nothing is gained by trained the machine faster than is redarning the machine faster than is required for clean skimming.

2. The temperature of the milk has much to do with the thickness of the

Cold milk has a tendency to ive a high test.

3. If the faucet on the supply can so It the laucet on the supply can is partly shut off, or becomes some-what clogged, as with a small stick, some hair, or dirt, it shuts off a part of the feed; and the test is higher, because the milk does not go through as fast, as usual and is subjected to entrifugal force in the machine for a

anger time.

4. If the test of the herd varies, one cows testing high and others low, and milk is saved out from the

Totals ... \$25,710,129 \$23,159,356 \$21,996,622
It will be observed that the total value of the exports of dairy products shows an increase during the past two years, notwithstanding the lower price years, notwithstanding the lower price obtained for cheese in 1910. If the price of cheese had ruled as high in 1910 as it did in 1909 the exports for the past year would have totalled about \$25,00,000. If the annual in-crease in home consumption is also taken into account we have ample evidence of a steady growth in dairy production. production.

Mr. Geo. H. Barr, Chief of the Dairy Division, and other members of the staff are now engaged in completing the investigation begun last year in connection with the care and handling of cream intended for creamnanding of cream intended for cream-gathering creameries. This work is being carried on at Renfrew, Ont., and it is hoped to complete the series of experiments early in the season.

beauting time to the hard varies, and milk is saved out from the high testing cows for the house and the paratted, and the next time the bix testing whole-milk is saved, there will be a change in the test. That is, a change in the richness of the milk separated will change the test.

The latest advices from New Zealand, dated May 5th, show a decrease of 10 per cent. in the shipments of leese from that country for the aeason of 1910-11 as compared with the season. The total shipments of a change in the richness of the milk separated will change the test.

The use of too much warm water or skim milk in flushing the bowl will blower the cream test.

The transport of the saved, there will be a change in the season. The total shipments of skim will be season, amount to 43,265,600 pounds or about 590,000 boxes of cheese.

Shipments of butter are practically the same as last year, there being only a very slight decrease. As against the decrease from New Zealand cheese to May 5th, season shipments of butter are practically the season as the extreme the season of the season shipments of butter are practically the season start of the season season of the season shipments of butter are practically the season shall be season s



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FARM AND DAIRY PETERBORO, ONT.

Others have tried disk-filled and cheap cream separators—and dis-carded them for Tubulars. The paid dearly to learn that disks are not needed in a modern separator, and that cheap separators lose their cost in wasted cream the first year. Why should you by the same expensive experience?

same expensive experience?

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Winnipeg, Mar

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Cheese Department

Makers are invited to send contributions to this department, to ask questions en matters relating to chosemaking and to suggest subjects for discussion. Address letteret of the Choses Maker's D partment. Makers are invited to send contributions to this department, to ask questions on matters relating to cheemaking and to suggest subjects for discussion. Address letters to The Cheese Maker's P partment.

Sidelights on Eastern Instructor's Trip

Each of the seven factories in the Belleville district, inspected by the Eastern Ontario dairy instructors, as reported in Farm and Dairy last week, inspected by the were well equipped for the making of good cheese and for the disposal of the whey. All had well insulated cool curing rooms, all but one had elevated steel whey tanks, and almost without exception at each the whey was pasteurized. The make of the smallest factory visited exceeded 200,000 by. one lbs. These factories were all strong in the very points in which the small factories of the extreme eastern districts are weak; therefore, the trip gave to the visiting instructors a good ideal to carry away, and instill into tricts of Eastern Ontario where small and ill-equipped factories are the rule.

Possibly there is not in Ontario another cheese tactory section where there are as many or as good cool curing rooms as are found in the Belleville district. At all of the fac-tories visited by the instructors the cheese are held for at least 10 days from the hoops. At Foxboro the from the hoops. At Foxboro the cheese are usually held for two and a half weeks. "Were all of our Ontario cheese held for a month in curing rooms such as this one at Fox-boro," said Mr. Publow, "we would have cheese worth talking about, and cheese that would bring the price." CURING ROOM FEATURES

All of the curing rooms inspected had cement floors except the one at Sidney, where wooden floors were giving good satisfaction. At the Mountain View factory a press room adjoins the cool curing room and here the cheese is kept one day to dry out after being taken from the hoops. after being taken from the hoops.

Mr. Publow said that this preliminary
drying was to be preferred to placing the cheese immediately under cool curing conditions.

curing conditions.

A good idea in connection with the Bayside factory was the boxing room. The cheese are taken into a small room adjoining the cool curing room, and are there boxed ready for shipping. The curing room, therefore, is not open while shipping and the

temperature is not reduced.
It was noticed that wherever the maker had had trouble with mold in the cool curing room the ceilings were low. High ceilings give good PIGE Page Book—all about oils and wax.
WARRIN Oil. WORKS QL. PITSSWERD, PA.
Holdependent Oil Refiners

4 CENTS PER LB.

Hall mold was somewhat in evidence,
and Mr. Publow recommended that

Cheese Department the shelves all be brought outside the first day were kept to throughout the five days.

The following are the results of the sun the five days.

The following are the results of the tests:

The cost of making over their old curing rooms into cool curing rooms at these factories had varied from \$400 to \$600. In every case the curing room was looked upon as cellent investment; Mr. H investment; Mr. Holgate, president of the Foxboro claimed that their added return would every year pay the first cos of installing the cool curing facilities DISPOSAL OF WHEY

Every effort is made at these tac-Every entor is made at these rac-tories to dispose of the whey in a manner that will not create unsani-tary conditions around the factory. At two or three of the factories visited, however, underground cement whey tanks were in evidence and were not giving very good satisfaction, the whey seeping through the cement and saturating the soil. The steel tanks in all cases were perfectly satisfac-tory. The surplus whey was run out of the tanks into tile drains each day. At the Massassaga factory two oil

barrels had been sunk in the ground one on top of the other, and from the bottom a six inch tile conveyed the bottom a six inch the conveyed the whey to a stream several hundred yards distant. This plan was giving the best of satisfaction. At the Quinte factory, Mr. W. I. Hicks, the maker, pointed with pride to the cement platform beside the whey tank, on which the teams stood when taking their load of whey. This prevented the dirty, stinking puddle that is so often in evidence beside the whey tank at cheese factories.

TO AVOID BROKEN BOXES

Attention was called to the method of nailing in the bottoms of cheese boxes at these factories. The most common method in the Eastern sections is to have a double head. The common method in the Eastern sec-tions is to have a double head. The preferable way is to have the bottom nailed inside both the side of the box and the lower hoop. Mr. Publow stated that on his recent visit to Montreal he noticed that 90 per cent. of the broken boxes had the bottoms nailed to the hoop only.

Another feature that attracted particular attention was the sanitary sites selected for the cheese factories. They not situated in hollows, but were high and dry. The Quinte and Foxboro factories were particularly well situated in this respect. Screen doors for the exclusion of flies were in evidence at several of the factories.

Result of the Extreme Heat P. A. B. Cherry, O.A.C., Guelph

For the week June 29th-July 5th, ex cessive heat has been felt all over On-tario—hotter, perhaps, than has been experienced for a considerable num-ber of years. Many farmers will be asking themselves and their neigh-bors how this sudden rise in temperature has affected their milk. All know (or should know) how the quantity has been affected, and in most cases we will find that the milk production has gone down considerably owing to the dried-up nature of the pasture and the inconvenience experienced by the

Now, Mr. Farm and Dairy reader, how has your test been affected? The test is an important item, especially with those who send their milk to the cheese factory, and are paid according to test.

some will argue that as the quanti-ty has gone down, the quality has gone up. This appears to be a good argument, too, but the following re-sults will show it to be in the wrong. These results were taken from 46 tests of patrons' milk as delivered at one of the well known cheese factories in the Listowel district. Each day for five days the milk was tested for both fat and casein, and the weights noted. The patrons selected for the test on THE HELLER-ALLER CO. WINDS

		Percentage of Butter Fat					Percentage of Casein			
Patron's	1st Day	2nd Day	3rd aDy	4th Day	5th Day	1st Day	2nd Day	ed Day	b Day	
1 2		3.4		3.3		2.2	2.1	1	2.0	
3	3.4					2.4	2.3		2.1	
						2.3	2.2		2.0	
4	3.8				3.2		2.2		21	
5	3.9				3.3	2.4	2.3		2.1	
6	3.2	3.1	3.1	2.9	2.8	2.4	2.3	2.3	2.1	
7	3.5	3. 3	3.1	3.1	3.1	2.2	2.1		24	
8					3.2	2.3	2.2	20	211	
9	3.4	3.3	3.4	3.9	2.9	2.3	2.3	2.2		
10	3.7			3.2		2.3	2.2		2.0 1	

Less milk was delivered on the fi day than on the first by all pat but No. 10. On the last day of test it was calculated that pounds of milk were required to pounds of this were required to a ufacture one pound of cheese. He decreased quantity was here acc panied by a falling off in quality well. The casein tests here given exceptionally low.

Cool Curing in Small Factory

Editor, Farm and Dairy.—In re-to the query of Mr. A. L. Stackho in Farm and Dairy of June 29, regard to the advisability of instal a cool curing room in a cheese tory with a 50 ton output, I must that it is a good thing to have a curing room in any factory, and especially in a small one, often in a small factory it is ne sary to hold cheese longer than w they are having a large make no hesitation in recommending a c curing room for any cheese factory

The Dairy Department will be gla to furnish blue prints and any ne sary information required in come tion with building cool curing room —Geo. H. Barr, Chief, Dairy Dr sion, Ottawa.

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are absolutely Correct, and the the maning mill made. The wheel is built on a hub ro on a long stationary steel spindle, on a long stationary steel spindle will never become worn and our will never become worn and our wheel to sag toward the tower.

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July 13, 19

In the long love, Tho' under earth. The great ete eps stric deem it Give thy love

So beautifu THOMAS ished had as steady, reliab ily that was ple. If he Martha had cash, and had

ills on the s twenty-five ve estimable par small pink He stared at face, and Ma ping away shouldn't hav She went o

"It's for a m me. I would month—it's things in it. her father as Thomas Pe "By Geor youngsters ne comes. You on bushes!" Martha mi frost must h

the last twen Ready Martha's aco tinued to ple and said not 'Here the thirty-nine d get things fo get you an coat last yes weekdays an

Martha m that she wa hired man, wallaby coat, "You get a

me tell you ones how I le years old, ears old, w about enoug train with. magazines tl they do any hard-earned

Winter the States, va dollar, an

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Dairy Di

COLUMN

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ΙE



THE future destiny of the child is always the work of the mother. - Bonaparte. ...

The Second Chance (Copyrighted)

NELLIE L. McCLUNG Author of "Sowing Seeds in Danny"

them

earth.

eeps strict account, and will re-deem its worth.

So beautiful a thing was never lost In the long run. —Ella Wheeler Wilcox.

THOMAS PERKINS was astonlly that was really like his own peo-ple. If he could believe his senses, Martha had asked for two dollars in cash, and had distinctly said that due bills on the store would not do!

If Martha had risen from her cradle twenty-five years ago and banged her stimable parent in the eye with her small pink fist, he could not have been more surprised than he was now! He stared at her with all this in his

She went over the argument again.
"It's for a magazine Mrs. Cavers lent

Martha might have said that spring frost must have nipped the buds for the last twenty-five years, but she did not. Ready speech was not one of Martha's accomplishments, so she continued to pleat her apron into a fan and said nothing.

Martha might have reminded him that she was watering and feeding the stock, and saving the wages of a

the stock, and saving the wages of a hired man, while she was wearing the wallaby coat, but she said not a word. "You get a queer old lot more than I got when I was a young shaver, let me tell you. I've often told you young ones how I left home, when I was nine

stripes was on the floor; a blue and stripes was on the floor; a blue and white log-cabin quilt was on the bed; over the lace-edged pillow covers there hung embroidered pillow shams. Une had on it a wreath of wild roses encircling the words "I slept and dreamed that life was Beauty," while its companion, with a similar profusion of roses, made the correction: "I woke and knew that life was Duty." Martha had not chosen the words, for she had never even dreamed that life was beauty. A peddler (not the one that had beguiled her Aunt Lizzie) had been storm-stayed with them the winter before, and he had given her

winter before, and he had given her these in payment for his lodging. She sat now on a little stool that she had made for herself of empty to-mato cans, covered with gaily flowered cretonne, and drawing back the mus-lin frilled curtains, looked wearily over the fields. It was a pleasant scene that lay before Martha's window—a long reach of stubble field, stretching away to the bank of the Souris, flankaway to the bank of the Souris, hank-ed by poplar bluffs. It was just a mile long, that field, a wonderful stretch of wheat-producing soil; but to Martha it was all a weariness of

Tell Your Friends

'The Second Chance," the first instalment of which ap-pears in Farm and Dairy this week, is one of the greatest serial stories ever run in a farm paper. Mrs McClung is one paper. Mrs McClung is one of the most popular of present day writers. "The Second Chance" is he masterpiece. It is a story that will reach the hearts of a readers, and the quaint humor of "Pearlie Watson" will be pleasing to all.

Tell your friends about orreat serial story. Sawe the first few copies to your was the first few copies to your manners and will wish to great the hers. and will wish to great the hers. and will wish to great the

bers, and will wish to read the first of the story later on.

the flesh, for it meant the getting of innumerable meals for the men who ploughed and sowed and reaped

To-night, looking at the tall elms that fringed the river bank, she tried to think of the things that had made her happy. They were geting along well, there had been many improve-ments in the house and out of it. She had better clothes than ever she had the trees had been lovely this last sum mer, and the garden never better the lilacs had bloomed last spring Everything was improving except her-self, she thought sadly; the years that had been kind to everything else were

With a sudden impulse, she with a sudden impulse, sas well to the mirror on her dressing-table, and looked long and earnestly at her image there. Martha was twenty-five Her years old, and looked older. shoulders were slightly bent, would suggest to an accurate observer would suggest to an accurate observer that they had become so by carrying heavy burdens. Her hair was hay-colored and broken. Her forehead and her eyes were her best features, and her mouth, too, was well formed and firm, giving her the look of a person

who could endure.

To-night, as she sat leaning her head on the windowsill, Martha's thoughts were as near to bitterness as eves with a red handkerchief, and got when I was a young shaver, tet me tell you. I've often told you young ones how I left home, when I was nime years old, with the wind in my back that's all got from home—and with about enough elothes on me to flag a train with. There want's nay of these magnaines then, and I don't know as they do any good anyway. Poor old Ann Winters sent away her good, hard-earned dollar to some place in the States, where they said: Send us a dollar, and we'll show you how to I was a dollar, and we'll show you how to I was a fair and the control of the control of

It was dark when Martha lifted her head. She hastily drew down the blind, lit the lamp, and washed away all traces of her tears. Going to a cupboard that stood behind the door, she took out a piece of fine embroidery and was soon at work upon it.

Hidden away in her heart, so well hidden that no one could have sus-pected its presence, Martha cherished a sweet dream. To her stern sense of right and wrong it would have improper to think the thoughts she was thinking, but for the fact that they were so idle, so vain, so false, so hopeless. It had all begun the fall hopeless. It had all begun the fall before, when, at a party at one of the neighbors', Arthur Wemyss, the young Englishman, had askd her to dance. He had been so different from the young men she had known, so courteous and gentle, and had spoken to her with auther speect, that her heart was award with a strange new feel. was swept with a strange, new feeling that perhaps, after all, there might be for her the homage and admiration she had seen paid to other miration ahe had seen paid to other girls. In her innocence of the world's ways, good and bad, she did not know that young men like Arthur were taught to reverence all women, and that the deference of his manner was nothing more than that.

Martha fed her heart with no false hope—she never forgot to remind her-

nope—sale lever forgot to remind ner-self that she was a dull, plain girl— and even when she sat at her em-broidery and let the imagination of her heart weave for her a golden dream, it was only a dream to her,

nothing more! When Arthur bought Jim Russell's quarter-section and began farming in-dependently, the Perkinses were his nearest neighbors. Martha baked his bread for him, and seldom gave him his basket of newly made loaves that it did not contain a pie, a loaf of cake, or some other expression of her goodwill, all of which Arthur received very gratefully.

He never knew what pleasure it gave her to do this for him, and al-though she knew he was engaged to be married to a young lady in England, it was the one bright evening of

land, it was the one bright evening of the week for her when he came over to get his weekly allowance. Martha had never heard of unre-quited love. The only books she had read were the Manitoba Readers as far as Book IV., and they are notice-ably silent on the affairs of the heart. Ly the goesin of the neighborhood abs ably silent on the affairs of the heart. In the gossip of the neighborhood she had heard of girls making "a dead set for fellows who did not care a row of pins" for them, and she knew it was not considered a nice thing for any girl to do; but it came to her now clearly that it was not a subject for mirth, and she wondered why any erson found it so.

As for Martha herself, the tricks of

As for martin herself, the tries of coquetry were foreign to her, unless flaky biscuits and snowy bread may be so called; and so, day by day, she went on baking, scrubbing, and sewing, taking what happiness she could of dreams, sweet, vanishing

dreams.

CHAPTER II. THE RISING WATSONS

There is ever a song somewhere, my dear,
There is ever a something sings

alway:

alway: here's a song of the lark when the skies are clear, And the song of the thrush when the skies are gray.

-James Whitcomb Riley.

While Martha Perkins was weaving weet fancies to beguile the tedium of her uneventful life, a very different scene was being enacted, a few miles away, in the humble home of John Watson, C.P.R. section-man, in the little town of Millford, where he and his wife and family of nine were working out their own destiny. Mrs. Wat-

The great eternal government above

Give thy love freely; do not count the

ished beyond words. Martha had asked for money! The steady, reinable, early-to-bed, early-to-rise Martha—the only one of his fam-

face, and Martha felt the ground slip-ping away from her. Maybe she shouldn't have asked for it!

me. I would like to get it every month—it's—it's got lots of nice things in it." She did not look at

comes. You seem to think it grows on bushes!"

and said nothing.

"Here the other day didn't I send thirty-nine dollars into Winnipeg to get things for the house, and didn't I get you an eighteen-dollar wallaty cont last year, and let you went weekdays and all, and never said a

CHAPTER I MARTHA
In the long run all love is paid by love, love, love, love by the bosts of line magazine and sent her dollar, and

in a magazine and sent her dollar, and what she got was a pretty straight insult. I think. They wrote back, 'Put an advertisement like ours in some paper, and get fifty people like yourself to answer it.' There's a magazine for you!'
Martha looked at him helplessly. 'I be a making a little money they way, they making a little money they are the samking a little money they are the samking a little money they are the samking a little money they are the are they are the are they are they are the are they are they are the are the are they are the are they are to get a trip home this Christmas, to get a trip home this Christmas, she said, locking and unlocking her fingers, the rough, toil-worn joints of which spoke eloquently in her favor. the old man had had eyes to see

"You women are too easy," he said. "You'll promise anything. Yer poor grandmother let a man put a piano in the shed once when it was raining, and he asked her to sign a paper sayin' it was there, and he could come my time he liked to get it; and, by Jinks! didn't a fellow come along in a few days wantin' her to pay for it, and showing her her own name to a note. She wasn't so slow either, for she purtended she doubted her own writin', and got near enough to make a grab for it, and tore her name off; but it gave me father such a turn he advertised her in the paper that he would not be responsible for her debts, and he never put his name to paper of any kind afterward. There was a fellow in the old Farmers' Home in Brandon that asked me father to sign things in it." She did not look at lot any kind afterward. Incre was a she said this. Ibmas Perkins moistened his lips. Thomas Perkins moistened his lips. Brandon that asked me father to sign voungsters never think how the money oungsters never think how the money oungsters never think how the money on the state of up in front of him, and I tell you it was all we could do to keep the old man from hittin' him. Of course,

man from hittin' nim. Of course, Martha, if ye didn't put it down in writin' she can't hold ye; but puttin' it down is the deuce altogether."
"But I want to give it." Martha said slowly. "I want the magazine, said slowly. "I want the magazine, and I want to help Mrs. Cavers."
"Now, Martha, look a here," the

"Now, Martha, look a here." the old man said, "sou're a real good girl, and very like my own folks—in the way you handle a hoe yet just like my noor sister Lizzie that married a peddler against all our wishes. I mind well, the night before she ran away how she kissed me, and says she: 'Good-bye, Tommy, don't forgit to shut the henbouse door,' and in the mornin' she was gone.''
Lizzie's breaved Lrother wiped his eyes with a red handkerchief, and looked dreamly into the fire.

son up to this time had spent very of the daylight hours at homhaving a regular itinerary among some of the better homes of the town, where she did half-day stands at the washtub, with a large grain sack draped around her portly person,

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By L. H. Pammel, B. Agr., M. S., Ph. D. Professor of Botany, Iowa State College, and Botanist, Iowa A wicultural

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Tile loss caused by yeard amounts annually to hundreds of millions of dollars. The weed question, therefore, is both important and vital to every tiller of the soil. Until the to every tiller of the soil. Until the specialistic properties of the product of is the result of study, in vestigation and observation

for nearly a lifetime The important weed roblems are discussed from a broad viewpoint. The text matter has been arranged in pedagorical order, making the book useful for both high school and colleges. It is a book for every one who teaches every one who teaches the character of the colleges of the colleges

flowers and practical botany, espe-cially weed subjects. Then, too, there are the practical suggestions for the treatment of weeds. In this respect alone the book is worth while Moreover, it is a book for the practical man. If a weed trouble is present, turn to this book and get the sugges-tion for its correction. In a hundred tion for its correction. In a hundred ways the farmer, landowner, gardener and park superintendent will find the book helpful and authoritative.

Profusely Illustrated, 5 by 7 inches, Cloth, \$1.65, Post Paid.

One day the fortunes of the Watsor family suddenly changed, and in such family suddenly changed, and in such a remarkable way it would convince the most sceptical of the existence of good working fairies. A letter came to Pearl, the eldest girl, from the Old Country, and the letter contained

When it became known in the com-munity that Pearl Watson had refrom the parents of the young Eng-lishman she had nursed while she was working for Mrs. Sam Motherwell, it working for Mrs. Sam motherweil, it created no small stir in the hearts of those who had to do wish other young Englishmen. Parents across the sea, rolling in ancestral gold and Bank of England notes, acquired a reality they had never enjoyed before The young chore boy who was working for five dollars a month at George Steadman's never knew why Mrs. Steadman suddenly let him have the second helping of butter and also sugar in his tea. Neither did he understand why she Neither did he understand why she gave him an onion poultice for his aching ear, and large from the his aching ear, and large him his aching ear, and large him his his chapped hands. Therefore, asked him straight about his folks in the Old Country, and 'how they were fixed,' he, being a dull lad, and not quick to see an advantage, foolishly explained that he 'didn't 'are no-body Lelongink to him'—whereupon the old rule regarding second helpings was as saideling restored.

was as suddenly restored.
On the Monday morning after
Pearl's return home she was the first
person up in the house. She made the porridge and set the table for breakfast, and then roused all the family except Danny, who was still allowed the pri three of sleeping as long as he wished and even encouraged

After the family had eaten their breakfast Pearl explained her plans to them. "Ma," she said, "you are to them. 'Ma,' she said, 'you are not to wash any more, and isn't it lucky there's a new Englishwoman across the track there in 'Little Eng-land,' that'll be glad to get it to do. and no one'll be disappointed, and we'll go to the store to-day and get Sunday suits all round for the wee Sunday suits all round for the wee lads and all, and get them fixed up to go to Sunday school and church twice a day. Ye'll have to learn what ye can while the clothes last. Mary'll can while the clothes last. Mary'll have a new fur collar, and Ma'll have the fur-lined cape; and yer old coat. Ma, can be cut down for me. Camilial lihelp us to buy what we need, and now, Ma, let's get them ready for school. Money's no good to us if ye haven't education, and it's education we'll have now, every last wan of us. Times has changed for the Watsons! It seems as if the Lord sent us the money Himself, for He can't bear to have people ignorant if there's any way out of it at all, at all, at all, and there's nearly always a way. all, and there's nearly always a way if people'll only take it. So, Ma, get out a new bar of soap and let's get at them!"

But in spite of all Pearl and her But in spite of all Pearl and ber mother could do, there was only enough clothing for two little boys, and Patsey had to stay at home; but Pearlie beguiled him into good humor by telling him that when he grew to be a man he would keep a big jewellery store, and in preparation therefor she set him at work, draped in a nightdress of his mother's, to cut watches and brooches from an old Christmas catalogue.

"Now, Mary, alanna," Pearl continued, "you're to go to school, too, and make every day count. There's lots to learn, and it's all good. Get as much as ye can every day. I'm things fixed up, and Teddy and all of us. We've got the money to git the clothes, and we'll go as far with it as the clothes'll last."

When Pearl. Mrs. Watson. and Camilla went that day to purchase

while the family at home brought clothes for the family, they received that two packing boxes were sent us themselves up in whatever way seemed the best of attention from the obliging on the dray wagon, and it was a regul the best of attention from the obliging clerks. Mr. Mason, the proprietor, examined the cheque, and even went with Pearl to the bank to deposit it.

Then came the joyous work of pick-ing out clothes for the whole family. A neat blue and white hairline stripe A neat blue and write nations was selected for Jimmy, in preference to a pepper-and-salt suit, which Pearl admitted was nice enough, but would not do for Jimmy, for it seemed to not do for Jimmy, for it see A soft brown serge with a white belt with two gold bears on it was chosen for Danny, and gray Norfolk jacket suits for Tommy and Patsey—just alike, be-cause Pearl said everybody knew they twins, and there was no were twins, and there was no use denying it now. A green and black plaid was bought to make Mary a new Sunday dress, and a red and black plaid for "days." Pearl knew that plaid for "days." Pearl knew that when Mary was telling a story to the boys she always clothed her leading lady in plaid, and from this she in-ferred how Mary's tastes ran! Stockings and shoes were selected, and an assortment of underclothes, towels, toques, scarfs, and overshoes assembled.

was like a dream to Pearl, the wildest, sweetest dream, the kind you

on the dray wagon, and it was a proud moment for her when she saw then carried in and placed in the middle of

the "room."
"Now set down," Pearl said truly "every wan of ye set on the fl none of yer stuff can fall, and I ye what's for ye. But ye can t put them on till Sunday morning, that is the Sunday things, and ye can on any of them till to-morrow in ing, when ye'll be as clean as water and bar soap can make ye me and Ma are going at ye night. There's nothin' looks miserabler than a good suit of clothes

with a dirty neck fornenst it."
Everybody did as Pearl said soon their arms were full of chases. Danny was so delighted with the gold bears that he quite neglected the gold bears that he gold be to look at his suit, Tommy was rub-bing his chin on his new coat to see how it felt. Patsey was hunting for pockets in his, when someone discover ed that Bugsey was in tears, idle, out-of-place tears! Mrs. Watson, in great orpine tears: AIS. Wasself, Ill great surprise, inquired the cause, and, after some coaxing, Bugsey whimpered: "I wish I'd always knew I was goin' to get them!"

Mrs. Watson remonstrated with



An Attractive and Exceedingly Comfortable Home

An Attractive and Exceedingly Comfortable flome

Probably as fine a farming district as one may ever see is the South Paris

Plains in Brant Co., Ont. The soil is of loam, hardy level enough to drain well

it has been well farmed by intelligent and progressive husbandmen, who have
been thoughful and appreciative of good homes, error many of which, like
unto the one here shown, are to be found in that Bert. Photo, taken by as

editor of Farm and Dairy, showing the home of Mr. L. A. Smith, Brant Co., Ont.

lie down and try to coax back again him, but Pearl interposed after you wake from it. She could not "L'ave him alone, Ma: I know keep from feeling Danny's trown auit feels! He's enjoyin' his cry and stroking lovingly his shiny brown as if he was laughin' his rea

Then came a "stuff" dress for Ma, and Sunday suits for Pa, Teddy, and Billy. By this time the whole staff Billy. ere busy helping on the good work. Mason had no fur-lined capes in stock, but he would send for one, he said, and have it still in time for Sunday, for Pearl was determined to have her whole family go to church Sunday morning.

"My, what an outburst of good dothes there'll be," Camilla said. Now, what are you going to have for what an outburst of good there'll be.' Camilla said. clothes

Pearl had always dreamed of a wine colored silk, but she hesitated now, for she had heard that silk did not wear well, and was a material for rich people only, but that did not prevent the dream from coming back. prevent the dream from coming back.
While Pearl was thinking about it.
Mr. Mason and Camilla held a hurried conference

"What about your favorite color, now, Pearl?" Camilla asked. "Isn't it a wine-colored silk you always wish

for when you see the new moon.

Pearl admitted that it had been he wish for quite a while, but she wanted to see overcoats first; so overcoats were bought and overcoats sent on approval There were yards and yards of flannelette bought to be made into various garments. Pearl was going to

"L'ave him alone, Ma: I know how he feels! He's enjoyin' his cry as much as if he was laughin' his head off."

An hour was spent in rapturous in-spection, and then everything was placed carefully back in the boxes.

That night, after supper, there came a knock at the door, and a long pasteboard box, neatly tied with wine pasteeoard box, neatly sted with wine-colored ribbon, was handed in. On its upper surface it bore in bold char-acters the name of "Miss P. Watson," and below that, "With the compli-ments of Mason & Meikle." Excitement ran high.

"Open it, Pearlie dear," her mo-ther said. "Don't stand there gawa at in' at it. There'll be something in it, maybe."

There was something in it for sure There was something in the for sur-est, springiest silk, the kind that creaks when you squeeze it, and it was of the shade that Pearl had seen in her dreams. There were yards of silk braid and of cream net. There were sparkling buttons and spools of thread, and a "neck" of cream filing with silver spangles on it, and at the bottom of the box, rolled in tissue paper, were two pairs of embroidered stockings and a pair of glittering black patent leather slippers that you could see your face in!
"Look at that now!" Mrs. Watson

exclaimed. "Deesn't it book (To be continued) "Deesn't it beat all

various garments. Pearl was going to have a dressmaker come to the house, who, under Camilla's direction, would make all sorts of things for the Watsons.

Pearl's purchases were so numerous lows a bath is avoided.

July 13, Reschass The 20000000

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We Should Banish Fear

No. 16

For God hath not given us the spirit for good nath no: given us the spirit of fear; but of power, and of love, and of a sound mind.—II Peter, I:7
There is no fear in love: but perfect love casteth out fear; because fear hath torment. He that feareth is not made perfect in love.—I lohn,

There is a power contained in each of these two verses that is so stupendous the human mind cannot grasp its immensity. It is a power so great that if we will but trust it and test it. that it we will but trust it and test it, it will break the hold Satan has on us, and transform us into strong, courageous men and women, able to bear and do all things that are right and worthy. It is the power of God.

Our fears are our worst enemies. They hold us in continual slavery. They stay us from doing those things

The Upward Look impulses to develop the great powers our lives so will our characters grow that are within us. There is no limit to the power that is within each of us, no matter how humble, or poor or Ignorant we may be. Each of us has, full of recorded instances where the



American Society Ladies Interest Themselves in Dairy Cattle

The photo herewith reproduced was snapped by an editor of Farm and Dairy at the Roht. Hunter & Sons famous sale of Ayrshire cattle two weeks ago. One of the laddes here shown, Mrs. Erchardt, of West Berlin, Vt., purchased seven

and He will help us; Satan whisper that we are not able to do it, and that we shall surely fail. God tells us to trust in Him, and He will give us the victory. Satan answers that we are not strong enough to do so, and that people will laugh at us if we try and then fail. God tells us not to take any anxious thought for the morrow. Satan informs us that all manner of evil is sure to befall us if we do not do as our foolish fears prompt us. God tells us to ask and it shall be given unto us. Satan whispers that that is not so, that we are too full of sin or too weak to expect our petitions

(15)

sin or too weak to expect our petitions to be answered by the Lord.

And thus the ceaseless fight goes on in our lives. God's power ever striving to draw us up into higher and better spheres of action; Satan constantly holding us back by our fears and lack of belief.

If, therefore, we desire to become better men and women let us never forget the assurances given in our texts: That God instead of giving us the spirit of power and of love (His own spirit) and of a sound mind, and that when we find fear entering our minds. They stay us from doing those things that we know that we should. They greent our lives from growing and expanding as they would could we but shake them off and use to the full the powers with which God has endowed green at least, the Spirit of rich and might were passed by and govers with which God has endowed led by our fears. Our lives are stunted and shriveled by our fears. Our lives are stunted and shriveled by our fears. Our farm of a power with the spirit of fear is a spirit of God dwelleth in you?"—[1] "whoseever shall exalt himself shall be exalted."—[5x] Matt Christians do not appear to the power of the spirit of fear is a spirit of God in the spirit of fear is a spirit of God in the spirit of God is as we allow this Spirit, work—[23:12].

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The follow from an entertor of As white eattle two weeks ago. On the spirit and of a sound mind, and that the spirit of God is a set of the spirit of God is a set of the spirit of God is as we allow this Spirit, work—[23:12].



Try this Thirsty Flour

A very thirsty flour. Absorbs a lot of water. Because it contains so much gluten.

Manitoba wheat is wonderfully rich in sturdy gluten.

And, think of it, FIVE ROSES is milled exclusively from the very cream of the Manitoba wheat berries.

So FIVE ROSES must be awfully thirsty, don't you see.

In your mixing bowl it greedily absorbs more water.

So you get *more* loaves than usual without using more flour. You use *less*.

Your flour lasts longer, doesn't it? Less trips to your dealer.

That's how FIVE ROSES saves money.

Actually saves YOU money. Use this economical flour.

Not Bleached



Not Blended

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Embroidery Designs

Designs illustrated in this column
will be furnished for 10 conte each.

Readers desiring any special pattern

Householder a favor by writing

Householder a favor by writing

They will be published a some a

They will be published as some and the second of the s Designs illustrated in this column of the co



590 Design for a Scalloped Edge or Border

The scallops are one and one-fourth inches in width, three-fourths of an inch in depth. Four yards and four corners



Design for Braidin, a Sailor Collar and Rolled-Over C. *s.



Design for Embroidering 591 fant's Carriage Cover



592 Design for Braiding an Over Blouse with Back in Surplice Style. with Back in Surplice Style.
Especially adapted to May Manton Pat-tern, No. 6691.

Transfer patterns for the style of the

Transfer patterns for neck and back edges and for the sleeves are given.

A Refrigerator Without Ice

Ice for refrigeration though desirlee for retrigeration though desirable is by no means a necessity. Our grand mothers got along very well without it. Campers of experience to-day are equally independent. The didea is simply to have a refrigerator based on the old-fashioned "coolers." A geoler can be made out of an

A cooler can be made out of any box that has for its sides slats instead of solid boards. A peach crate makes a very satisfactory one. The box once of solid boards. A peach crate makes a very satisfactory one. The box once chosen, all that is needed in the way of construction is to add as many shelves inside as desired, and a door on hinges. Then cover the door, sides and back with burlap or some similar

material.

On the top place a pan, preferably enamel, and from this pan hang wicks made of stries of flannel four or five inches in width. These wicks should have one end resting on the inside bottom of the pan, and the other hanging over the edge of the crate and touching the burlan. Then full the pan with water.

The cooler should be placed outside in a cool place, where the wind can blow upon it. The wicks absorb the water and distribute it through the mesh of the burlap by capillary at-

mesh of the burlap by capillary at-traction. The wind causes the moisture to evaporate, and the evapora-tion reduces the temperature inside the refrigerator. A writer in The

Here's a Home Dye That

ANYONE Can Use. HOME DYEING has taking-- Not so when you use



JUST THINK OF IT! DY-O-LA you can m, Silk or Mixed Ge



the CO.

NER BAL

BEARING
WASHER al

dripping wet
on the kitchen
floor, becau
it is floor, because it is hinged and when a open the water drips back into the mach-

into the ine.

No post in the centre of the tub to tear the clothes and take up built to

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CAPABLE **OLD COUNTRY** DOMESTICS

carefully selected, arriving every Monday. Apply now, The Guild, 71 Drummond St., Montreal, or 14 Grenville St., Toronto.

Youth's Companion, in describing such a cooler, asserts that it will keep butter hard and firm on the warmest The Sewing Room

. . . Have Charity

Be not ready to condemn him, Though he early fall from grace, For sooner you might be condemned Were you in the sinner's place; For the fallen have forgiveness, Learn to live and let to live, As you hope to be forgiven, In your inmost heart "Forgive."

Stop and think before you s corn him. In your haughtiness and pride,
Has your inner life been perfect
Have you nothing you would hide?
If your hidden thoughts were painted On the pages of a book,
Think you they would bear inspec-

Would you ask the world to look?

When you stand before your Maker, Looking on the path you've trod. Will your record then be purer Than the sinner's is before God? Is your soul so pure and spotless? Is your heart so free from guilt? Are you sure from never sinning, Is your house so strongly built?

When we're easting stones at others Let us think before we aim, Ere the stone might reach another We might find ourselves in shame. While we long for Heavenly mansions, For that world so bright and fair, Without charity for others, We may never enter there

THE COOK'S CORNER

Recipe for publication are requested.
Inquiries regarding cooking, recipes, etc., gladly answered upon request, to the Household Editor, Farm and Dairy.
Peterbero, Chiltor, Farm and Dairy.

* LEMON BAISIN PIR

One cup of sugar, one lemon, cup of raisins, one cu, water; chop lemon and raisins fine, cook in the water three-quarters of at hour.

PUDDING SAUCE.

Four tablespons of write sugar, two tablespons of tutter, me table-spon of four; beat all to a cream and add the white of one egg well beaten; then add one gill boiling water; stir well; flavor to taste.

MOLASSES COOKIES

One cup of molasses, one table poon of soda; dissolve in half a cup of boil-ing water; one tablespoon ginger, two tablespoons butter, and flour enough to roll out thin; cut with cake cutter, and cook in quick oven.

TAPIOCA CREAM

TAPICA CHEAM.

Two tablespoons of tapioca dissolved very soft, three yolks of eggs beaten and sweetened to the taste; boil one quart of milk, when cool stir in bot tapica and flavor; beat the whites very light and mix all together; let boil ten minutes, pour into moulds.

ORANGE CREAM.

Make according to above rule, add-Make according to above rule, add-ing one gill of orange juice and the grated rind of one orange which has been previously soaked in the orange juice while the gelatine is dissolving over the boiling water, and the beat-cu yolks of two eggs when you take off, and quite hot.

CHERRY PUDDING.

A pint of bread crusts or soft crackors, scalded in a quart of boiling milk, piece of butter the size of an egg, one teaspoon of salt, three eggs, one and a half teacups of sugar if eaten without sauce, and if with sauce a tablespoon of sugar; a pinch of pul-verized cinnamon, and a quart of stoned cherries; bake quickly.

The Sewing Room

Patterns 10 cents each. Order number and size. If for child give age; for adults give bust sure for waists, and waist me-for skirts. Address all orders to Pattern Department.

CHILD'S YOKE DRESS, 70%



The simple frock that h straight lines a yoke is one most becomin the tiny can wear. allows a choisquare or high and short or sleeves, so suits all sease For the 2 ye will be require

yards of material; 2 yards of material; 2 yards 36 or 1.34 yards 44 inches wish 41.4 yards of banding and 1.34 yards of edging to make as shown in the freview, or 3-8 yard of material; 18 inches wide for yoke as shown in back yew. This pattern is cut in sizes for children or 1.2 and 4 years of age. vards of .

FIVE GORED SKIRT WITH DEEP YOKE AND HIGH WAIST LINE, 7038,



The skirt that a made with a deep yoke is a very new one. It can be made

one. It can be made of two materials, or of one.

For a woman of medium size the skirt will require 1 yards of material 2, 2.7-8 yards 36 or 4 inches wide wide. inches wide who is inches wide who inches wide who was the comparison of the control of the cont

end 30 inch waist measure.

PLAIN SHIRT WAIST, 7970



This plain shirt waist that is made in peasant style is new and smart or This one is finished with the regulation box plait and with regulation sleen but it is no troub to make, as t sleeves make part the waist and de require fitting to the armholes.

For the medium

For the median size will be require 2 3-8 yards of mate ial 27, 2 1-4 yards l or 44 inches with is cut in sizes 34, 36, 38, 42 and 44 inch bust measure.

WITH YOKE FOR MISSES AND SMALL WOMEN, 7071



The simple kimon made with a plai yoke is always pretty one and adapted to a var of materials. one suits small and men as young girls.

For the 16 ize will be re size will be require
5 1-4 yards of material 27, 4 1-4 yards
56 or 3 1-2 yards 4
inches wide, with
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kimono will b kimono w needed 2 5 or 1 7-8 27, or 1 7-6 or 44 inches with 1 yard of trasting materia

in sizes for misses of 14, 16 and 18 years of

July 13,

OUR FA Corre

N ANTIGONISI light crop, as dry. Clover is to the hard for coming on fai their annual ment Farm, T joyed a please the apple crop

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ST ELMO, erally started, heat of May rainfall durin rainfall durin hay is earlie crop. A larg planted, and has been fav weeds. Grain HAS CHAPMAN. gin. but has wet weather. the first cutt good conditio timothy will

corn are mak worth 87.25 a SIN ELMVALE, been very dry, hay crop can of an averag dry. The privas 16c: butt siderable old farmers, and mand later the dreuth s than half a cro, while earsely to be WEL

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many may in the forenoon and draw it in the afternoon. Grain is heading out and is looking fine. Corn is well ad-ranced. Some of our farmers have started to sell new potatoes, which is a record for our district. The supply of milk is fall-ing off.—G. W.C.

GLENGARRY CO., ONT.

GLENGARRY CO., ONT.

ST ELMO, July 3.—Haying is now generally started, and owing to the extreme heat of May and the small amount of rainfall during both May and June the hay is earlier and also rather a small crop. A larger area of corn has been planted, and is looking well. The season has been favorable for controlling the seeds. Grain erops look fair: W.E.McK. HASTINGS CO., ONT

CHAPMAN, July 5.—Hay making has be-cun, but has been hindered somewhat by gun, but has been gui, out has been hindered somewhat by wet weather. Alfalfa is a fair crop, and the first cutting has been harvested in good condition. Red clover is fair, but timethy will be light. Spring grain and corn are making good growth. Hogs are worth \$7.25 a cwt.—II.S.T.

SIMCOE CO., ONT.

ELMVALE, July 5.—The weather has been very dry. Crops are all short. The hay crop cannot be more than two-thirds hay crop cannot be more than two thirds of an average. Pastures are becoming fry. The prices put has week for eggs was fee; butter, 15c, hay (old, 15n. Con-riberts, and will no doubt be in de-mand later at a good price. Owing to the dreuth strawberries were little more than half a crop. Apples are a small half a crop. Apples are a small while cherries and plums are to be seen.—C.S.B.





SEALED TENDERS addressed to the Postmaster General, will be received at University of AUGUST, 1911, for the ELEVENTH OF AUGUST, 1911, for the

OUR FARMERS' CLUB correspondence Invited NOVA SCOTIA ANTHONISH CO, N.S.

NOVA SCOTIA

ANTIGONISH CO, N.S.

BLORA, June 17.—The middle of June is past, and this part of Ontario never gave promise of such an abundant harvest and their annual ecurision to the Government of the covernment of the co

Prolonged drought and excessive hot weather have hastened the crops in west-ern Outario towards an unusually early maturity. In Brant county an editor of Farm and Dairy last week found hasing well under way and fall wheat fast approaching the cutting state procedure of the cutting state of the cutting

yields.

The hay, which early in the season was thought to be exceedingly light and much of it gave prospects of yields not exceeding from one-half to a ton per acre, has turned out much better than was expectturned out much better than was expected. Very few fields, if any, are yielding less than a ton and a half, and from this can be the state of the st

Alfalfa, of which there is now considerable grown in Brant county, has all been cut the first time, and notwithstanding the second growth most beautiful to see Many pieces of affalfa, although considerably winter-killed, have yielded most satisfactory first cuttings, the average cut being two good loads to the acre.

satisfactory first cuttings, the average cut being two good loads to the acre.

BatuPPLEMBNYTARY FEEDING provided by the second of the spring read of the second of the spring seeding to red clover in Brant county has been in the second of the spring seeding to red clover in Brant county has been in the prospects are that the dairy coss will have to be fed extra from now until late next May again, on matter what the water may be from this time forward since there is little if any old are for the red from the seed of t

MEANS and Noon, on FRIDAY, THE LEVENTEY OF AUGUST, 1911, for the DEVENTEY OF AUGUST, 1912, for the DEVENTEY OF AUGUST, 1912, for the DEVENTEY OF AUGUST, 1914, for the DEVENTEY HALDIMAND Co., ONT.

CANBORO, July 6.—Increased acreages
of oats and affatfa. July can be considered to the control of the con

Q. C. ANDERSON.

Superintendent
Poet Office Department. Mail Service
Brasch, Ottawa, June 22rd, 1911.

Brasch, Ottawa, June 22rd, 1911.

soon come. Full wheat will be cut by the 5th inst. The extreme heat and drought are hastening wheat and spring crops, and harvest will be over in July unless a change comes in the weather-CM.M. ELGIN CO., ONT.

FIGUR CO., ONT.
FROME, July 3.—Crops are very light owing to the dry weather of the last two months. Haying is the order of the day, and a short Job it is. Young clover is not showing up much, and unless we get rain very soon will be a complete failure. Pastures are very dry.—S.J.H.
SCIENESS, July 6.—A rent number of

HIVE. Pastures are very diff.—SJ.Jii.

SKIPNESS BRUCE CO. ON: number of apple trees are being set out this year. Many were set out last year and 1912 will see a larger number yet. Some are setting out peaches but we fear that our winters will be too cold. The only way to flat out, bowever, is to try. The apple flat out, bewere, is to try. The apple are well advanced and promise a full crop. Fall wheat is good. The hay crop varies a good deal. In some sections it is up to the average, in other places light. Follows, the set of the property of the proper

ABSORBINE ON BIG KNEE

If you have a horse with a big knee, procure a bottle of Absorbine and begin treatment as directed in the pamphlet which accompanies the remedy, and you within accompanies the remedy, and you is will bring about. William Jago, Huntsville, Ont. Feb. 2, 1911 reported his use of the remedy in the letter printed herewith:

"I have used Absorbine repeatedly with good results. I have used Absorbine on two big haces from bruises, and got first two big haces from bruises, and got first manual processing the process of the pro





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HIGH-CLASS STOCK FOR SALE Ayrshire calves and cattle, all ages: Yorkshire pigs and superior sows bred-Both sire and grade sire from imported

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PROPRIETOR MANAGER Riverside Farm, Montebello, Que BURNSIDE AVERHIBES

JUST LANDED 12 Bulls fit for service, Scotch winners, 4 2 year old heifers, all bred to treshen in Sept. and Oct. They are a grand strong lot of useful heifers with good teats. Also a few good year-

IR. R. NESS.

HOWICK, QUE.

Ayrshires

World's Champion herd for milk and production. Some young bulls and bull calves, all from R.O.P. cows for sale. A grandson of Primrose of Tanglewyld in the lot. Address

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'La Beis de la Roches'' Stock Farm Here are kept the choicest strains of IYRSHIRES. Imported and home bred ORKSHIRES of the best bacon types WHITE ORPINGTON, WHITE WYAN.

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Ayrshires, Clydesdales, Yorkshires A few very choice Bull Calves, out of deep milking dams, and sired by "Bencheskie Cheer-ful Boy" (Impl. Write now and secure first choice, Females of all ages. A Commercial Herd.

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SUNNYSIDE AYRSHIRES.

Imported and home bred, are of the choicest breeding, of good type and have been selected for production THREE young bulls dropped this fall, sired by "Nether Hall Good-time"—264d-(imp.) as well as a few females of various ages for sale. Write or come and see.

J. W. LOGAN, Howick Station, Que

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A few young bull calves for sale. Write for prices.

P. D. MCARTHUR, North Georgetown,

Howick Station on G. T. Ry.

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Special offering of four young bulls, dif-ferent ages, from imported stock. Write for particulars.

LAKESIDE FARM, PHILIPSBURG, QUE GEO. H. MONTGOMERY, Prop. 164 St. James St., Montrea

MISCELLANEOUS

TAMWORTH AND BERKSHIRE SWINE Boars and Sows for Sale, J. W. Tod Corinth. Ont. Maple Leaf Stock Farm

FOR SALE-KNIGHTON LODGE YORK-SHIRES, 3 Boars, fit for service, 2 Sows in farrow, and several younger ones of either sex.—C. C. Kettle, Wilsonville, Ont.

MARKET REVIEW AND FORECAST

Toronto, Monday, July 10.—Business is fairly healthy before the midsummer bull. Country buyers are more conservative than heretofore, and large rush orders are not expected.

From all parts of the country come records of large arous. Hay is short in a large arous. Hay is short in a light of the country of the country come records of large arous. Hay is short in a light of the country come records of large arous. Hay is short in a light of large arous. Hay is short in a light of large arous.

than herecutore, and large rush orders than herecutore, and large rush country come reports of large crops. Hay is short in some sections, and the fruit crop generally will be short, but other crops are excellent. Emigrants from to Old Country of the control of the country of

WHEAT.

WHEAT.

Quotations for wheat on this market are a little lower than a week ago owing to weak cobies from the Old Country. On the Chicago market wheat advanced rapilly during the early part of the week owing to reports of damage by heat and drought. At the end of the scare and drought. At the end of the scare of the control of the cont are unchanged at 80c to 82c. On Farmers' market fall wheat is quoter 82c to 83c and goose wheat 80c to 81c.

COARSE GRAINS.

COARSE GRAINS.

Trade in coarse grains is quite active. Reports of drought influenced prices at Chicago, and the effect was noticed locally. Oats and core show decided advances. Quotations are as follows: Oats, Canada Western No. 2, 41c; No. 3, 40c; No. 2, local white, 57] to 152 contisted, 60% to local white, 57] to 152 contisted, 60% to 158 core in the continuation of the continuat

MILL FEEDS.

Quotations here are unchanged, but the market is unsettled. Manitoba bran, \$21; shorts, \$25; Ontario bran, \$22; shorts, \$25.50. At Montreal quotations on mill feeds have declined. Manitoba bran, \$19; shorts, \$22; Ontario bran, \$30; shorts, \$22

HAY AND STRAW

HAV AND STRAW

Most of the hay arriving on the market is of inferior quality and difficult to
sell. Choice timothy finds a ready market. Quotations on track Toronto are:
No. 1 timothy, \$21 to \$8 mixed, \$9 vis.
1 timothy, \$21 to \$8 mixed, \$9 vis.
2 to \$15 is straw, bundled, \$31 to \$15; No. 2,
\$12 to \$15; straw, bundled, \$31 to \$15; loose, \$6 to \$8. The same conditions
apply at Montreal. No. 1 hay is quoted
at \$61 to \$14 No. 2, \$9.50 to \$12.50; No.
2, \$5.50 to \$5.50.

HIDES.

HIDES.

Quotations for hides are decidedly stronger. Prices paid by city dealers are as follows: No. 1, impected steers and cows. 12/cc; No. 2, 11/cc; No. 5 10/cc; call skins, 12/cc; No. 2, 11/cc; No. 5 10/cc; call skins, 15c. Prices paid by country dealers are: Hides, cured, 12/cc; sheep skins, \$1.25 to \$1.59; lambs, 20c to 30c; spring lambs, 25c to 30c; call skins, 15c. 2c to 30c; call skins, 15c.

POTATOES AND BEANS The market is steady and unchanged. Potatoes are now quoted at \$1.75 a bag for Ontarios out of store, and \$1.40 to \$1.50 a bag in car lots. At Montreal potatoes are scarce, and prices have again advanced to \$1.40 a bag for Green Moun-

Beans here are quoted at \$1.85 for primes and \$2.10 a bush, for hand picked.

FRUIT AND VEGETABLES. FRUIT AND VEGETABLES.
Excessively hot, dry weather is reducing
the crop of small fruits, and the market
is firm. Latest quotations are: Strawberries, 10e to 12e; raspberries, 15e to
17e; cherries, 11 qt. bits., 90e to 81,50; e
qt. bits., 40e to 75e; red currants, 11 qts.
81: cau'ifoxor, per dos. 21; 50; cablages,
crate, 83.55; head lettuce, dos., 30e; was
beans, bunb., 81 to 81,52.

EGGS AND POULTRY. Quetations here for eggs are unchanged,

Wool is taken at the following prices: Washed fleece, 18c to 20c: unwashed fleece, 13c to 14c: rejects, 15c.

DAIRY PRODUCE

DARY PRODUCE.

The situation with regard to butter and cheese is unchanged. Receipts are liberal and demand quite equal to the supply. Quotations are as follows: Creamery prints, 15c to 15c: inferior, 15c to 15c. Large old cheese are quoted at 15%c; twins, 15%c; new, large, 12%c; new twins, 15%c. HONEY

Wholesale quotations for honey are as follow: Buckwheat, 6c to 7c a lb. in tins: 6'4c in barrels: strained clover honey, 10c a lb. in 60 lb. tins: 5 to 10 lbs., 11c. No. 1 comb honey is quoted at \$2 to \$2.25 HORSE MARKET.

MUNEL MARKEI.

So little trade is moving in horse lines that it is hard to give actual quotations. Prices are quoted purely nominal as follow: Good heavy draughters, 8250 to \$500, medium weight, \$550 to \$500, and fan cultural horses bring \$150 to \$250, and fan required \$170 to \$500. Express horses are quoted \$170 to \$500. Express horses are quoted \$170 to \$500. Express horses \$550; and saddlers, \$150 to \$555;

LIVE STOCK

Prices on the live stock markets this past Prices on the live stock markets this past week have averaged lower than on the week previous. The extreme heat has lessented demand. A week ago to-day of the lower than the Monday previous. About 1,000 head of steers, or half the offering, was acquired by Canadian and United States buyers for abipment to United States buyers for abipment of the Canadian and Canadian quality cattle in any quantity. Butcher cattle were 10c lower in the face of a

table were 10c lower cattle were 10c lower fair demand.

On the Tuesday market competition was On the Tuesday market competition was proposed for butcher steers were used. The state of the chaing market of the chaing market of the control of the control of the control of the chaing market of the chain of the chain can be controlled to the chain can ers. Prices for nutcher steer's were un-impaired, but cows were down. Prices held firm to the closing market of the week, but here there was a sudden drop. It seems that people do not eat much neat in warm weather, and the light run was disposed of with difficulty. The animals showed the effect of burned up pastures, and some of the cattle were in pastures, and some of the cattle were in very poor condition. Quotations are as follows: Export cattle, choice, 85.75 to 15, bulls, 84.50 to 84.90; butcher steers, the common to medium, 85.65, butcher oversement to medium, 85.65, butcher oversement to medium, 84.80; common to good, 84 to 84.90; bulls, 84.25 to 84.75; feeders, 85.25 to 88.55; stockers, 83.75 to 85; canners, 81.50 to 82. Trade in milkers is slow, the demand being only for choice quality. Quotations are: Milkers, choice, 860 to 890; common are: Milkers, choice, 850; common steer. Siliers, choice, 850; springers, 825 to 86.

Skeep are stronger than a week Skeep are stronger than a week ago, and demand is good at advanced prices. Ewes are quoted at \$2.50 to \$4.50; lamble \$7.50 to \$8.40; lamble \$1.50 to \$4.50; lamble \$1.50 to \$4.50; lamble \$1.50 to \$4.50; lamble \$1.50 to \$4.50; lamble \$1.50 to \$1.50

ountry points.

Hot weather has weakened the stock market at Montreal, and choice steers have declined 50 cents to 75c. There has been little demand from local There has been little demand from local butchers, as large supplies butchers, as large supplies in hot weather. Steers well at \$5 to \$6; cows, \$3 to \$5, and bulls \$5 to \$5.

The market for sheep is weaker on account of increased offerings ewes selling at \$3 to \$5.50 and lambs \$8.30 to \$4.

Calves are also weaker at \$2 to \$5 each.

CHEESE MARKETS

Montreal, July 8.—The Quebec Cheese
Makers' Cooperative Society sold finest
cheese at 11½c; fine, 1135e to 11745e; No.
2, 1114e to 1135e.
Hrockville, July 6.—259 boxes of colored and 1.215 boxes of white. Sales at
1.215 boxes of white. Sales at
1.215 boxes of white. Sales at
1.215 boxes of white sold at 1135e.
135 boxes of white and 1.204 boxes of colored.

ored.

Campbellford, July 4.-1,000 cheese board all sold at 11 1-8c d: all sold at 11 1-5c. Napanee, July 7.—805 white and 570 col-red offered: 11½c refused. Brantford, July 7.—Offered, 720; all sold

Brantord, July 7.—Ulfered, 729; all said tilige.
Iroquois, July 7.—1,050 colored chres
offered; all sold at 111-8c.
Picton, July 7.—2,233 boxes, all colored,
Sold at 1114c.
Kemptville, July 7.—358 boxes; 100 soid

at 11 3-5c

at 11-3-5c. Victoriaville, Que., July 7. -2,000 bots of cheese sold at 107-8c. Covansville, Que., July 8.-1,266 pack aces of butter and 64 boxes of three Cheese all sold for 11½c. No butter sold 21½c offered.

St. Hyacinthe. Que., July 8.-60 paci ages of butter at 213-4c; 700 boxes chess tt 114.

London, Ont., July 8.-530 boxes offere Do sold at 11½c Belleville. 1- , 6.-2,285 ch ese of ales were 715 at 11½c, 370 at 11 7.16 100 at . 5-8c

GOSSIP A NEW DICTIONARY.

A NEW DICTIONARY.

From time to time the value of changes. Their meanings vary and words and technical terms are not detected by the control of the control of the control of the English language at regular vals. Webster's New International tionary represents the latest producing the control of the control 6,000 illustrations.

A striking feature of this book is divided page. The upper section of page is printed in the usual Wet type and contains those words that plage is britised in the usual Webste bloom in the list of the same in the list of the same in the list of the same in principal in smaller type and contains words deless frequent occurrence and of less one mon use. Another feature of this see mon use. Another feature of this see that would naturally be classified in the same in

WESTERN FAIR, SEPT, 8th-16th.

WESTERN FAIR, SEPT. 8th-18th.

A large amount of money is being a
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ern Fair, London, Ontario, on the grounds
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building is being changed to suit the ose
vonience of exhibitors and visitors allat
The considerable money, exect, on the and considerable money spent on the other stock buildings. The track ha

AYRSHIRES

AYRSHIRE BULLS foung Bulls all ages up to one year. Three for immediate service, all from R. O. R. ek. Write for prices.

James Begg, - St. Thomas, 0-R. R. No. 1

PIGS & CALVES WANTED

Farm and Dairy

would like to purchase York-shire Boars, Chester White Boars, Ayrshire Heifer Cal-ves, and Holstein Heifer Calves from 6 to 8 weeks old. Write Circulation Manager

FARM AND DAIRY Peterboro, - -Ontario

giving prices and ages of animals

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MILA ALLACE H. CRUME Canadian orders fil

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Holstein bul am, Netherla irch, on officand 22.55 1 go test, 4.2 bent, fat. 7 bent, fat. 8 bent,

W. H. CHERI

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reclayed and put in excentent codyn-while the interior of the ring has levelled, making a great improve-for showing the harness horses. a lists, entry forms, and all infor-a on application to the secretary, Hunt, London, Ont.

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A ristor in Sarnia. Ontario, one of seat accreating plants there is that the force to the seat of the control o 8.—1,266 pack tes of three o butter sold 8.-600 pack boxes chees boxes offered h ese offered at 117-16c and

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein Friesian ssciation, all of whose members are readers of the paper. Members of be Association are invited to send tems of interest to Holstein breeders or publication in this column.

THE ALLISON STOCK FARM

THE ALLISON STOCK FARM a fullor of Farm and Dairy paid a frisit recently to the Allison Stock on Chesterville, Ont., Dundas country, proprietor of the farm is Mr. H. J. Soon, the manager being Mr. Percy son. The farm comprises 200 acres, seems destined to become one of the datock farms of the country. T. H. J. Allison, who was born and the country of the country o

farm. A handsome residence has been sted at a cost of about \$8,000. Large ms are in course of construction. The se barn will be 200 by 40 feet, and the barn 160 by 24 feet. These two barns be connected by a wing 130 by 30

CRUMB'S IMPROVED STANCHION



Henry II, Alberton, Burjantin, S., Assantin, S., Assantin,

HOLSTEINS

'LES CHENAUX FARMS" VAUDREUIL, QUE.

HOLSTEINS-Winners-in the ring and the pail. Gold Medal herd at Ottawa

v combine Conformation and Proon. Il and Heifer Calves from our win-for sale.

L HARWOOD, Prop. D. BODEN, Man

FOR SALE

herland Beauty's Hatter Boy, pure Holstein bull, born March 4th, 1911.

Holstein bull, born March 4th, 1911.

Imm. Netherland Beauty De Kol, 6967, arch, on official test, gave 422, 48 lbs., and 22.5 lbs. butter in 7 days. and 22.5 lbs. butter in 7 days. cutive days' milk 196.75, testing 4.82 cutive 196.85, whose dam. Shortwood to 196.85, whose dam. Shortwood to 196.85, testing 4.82 cutive 196

W. H. CHERRY, GARNET, ONT.

feet. The barns are all of modern de-sign and well lighted. In the horse barn space is being provided in which to exer-cise and exhibit the horses. Aircady an excellent start has been made in pure bend stook. Holsteins, the start of the start of the start of the Light start of the start of the start of the Light start of the start of the start of the start of the Light start of the start of the start of the start of the Light start of the start of the start of the start of the Light start of the start of

acreacy an excellent start has been made in pure bred stock. Holsteins, Clydedales and hackneys are being kept. It was a start of the s

Segis.

A further description of this farm will be given in Farm and Dairy when the buildings have been completed and the stock of horses and cattle has been brought up to full strength.

REPORT OF OFFICIAL TESTS FOR HOL-STEIN-PRIESIANS FOR MAY, 1911. Netherby Queen Jane (4356), at 8 years, 9 months, 1 day of age: 22.56 lbs. sat, equivalent to 27.50 lbs. butter: 586.4 lbs. milk. Owned by H. J. Allison, Chesterville. Ont

Clara Mercedes DeKol (5005), at 6 years, 11 months, 5 days of age; 22.00 lbs. fat, equivalent to 27.50 lbs. butter; 586.4 lbs. milk

milk.

Fourteen-day test, at 6 years, 11 months, 5 days of age; 43.14 lbs. fat, equivalent to 55.22 lbs. butter: 1156.2 lbs. milk. Owned by Holbert Jerome, Glanford, Ont. Dolly Echo DeKol (6284), at 6 years, 0 months, 21 days of age; 20.6 lbs. fat, equivalent to 25.77 lbs. butter; owned by J. Cansberg, 17 lbs. days of age; 20.5 lbs. fat, equivalent to 5 days of age; 20.5 lbs. fat, equivalent to 25.28 lbs. butter; 557.8 lbs. milk.

milk. Thirty-day test, at 7 years, 6 months, 15 days of age; 81.20 lbs, fat, equivalent to 1015 0 lbs, butter; 2,311.8 lbs, milk. Owned by T. I. Dunkin, Norwich, Ont. Canry Butter Gir (65612, at 5 years, 10 months, 20 days of age; 18.25 lbs, fat, equivalent to 23.57 lbs, butter; 4846 lbs, fat, inlik. Owned by Jas. Rettie, Norwich.

Ont.
Tritonia Morcedes Queen (5955), at 9
years, 3 months, 30 days of age; 17.55
lbs. fat, equivalent to 21.29 lbs. butter;
548.5 lbs. milk. Owned by P. J. Salley,
Lachina liapide, 50.
1. Francisco, 10.
1. The butter; 416.8 lbs. milk. Owned
by A. E. Hulet, Norwich, Ont.
1. Ths. butter; 416.8 lbs. milk. Owned
by A. E. Hulet, Norwich, Ont.
1. Ths. with the below of the property of

equivalent to 2:13 lbs. butter; 490.1 lbs.
milk.
Thirty-day test, at 5 years, 9 months,
6 dars of age: 70.51 lbs. fat, equivalent
to 8:14 lbs. butter; 1951.2 lbs. milk. Owned
by Lakeview Farm, Bronton, 118. Owned
to 8:14 lbs. butter; 1951.2 lbs. milk. Owned
to 8:14 lbs. butter; 1951.2 lbs. butter; 465.6
lbs. milk.
Fourteen-day test, at 5 years, 4 months,
24 days of age; 35 lbs. fat, equivalent to
11.55 lbs. butter; 277 lbs. milk. Owned
by Lakeview Farm, Bronton, 10.
Gretches months, 23 days of age; 16.87
lbs. fat, equivalent to 21.09 lbs. butter,
137.4 lbs. milk. Owned by A. O. Hardy,
Brockville, Ont.
Carrie Dekol (5670), at 6 years, 1 month,
0 days of age; 16.97
lbs. fat, equivalent to 21.09 lbs. butter,
10.37 lbs. butter; 20.5 lbs. fat,
10.37 lbs. butter; 20.5 lbs. fat,
10.37 lbs. butter; 20.5 lbs. fat,
10.37 lbs. butter; 20.5 lbs. milk. Owned
10.5 lbs. fat, equivalent
10.5 lbs. butter; 20.5 lbs. milk. Owned
10.5 lbs. milk. Owned

Cynthia Ann (7331), at 10 years omonths, 14 days of age; 15.63 lbs. fat, equivalent to 19.54 lbs. butter; 468.4 lbs. milk. Owned by T. L. Dunkin, Norwich,

Ont.

Posch Inka Sylvia (5942), at 6 years, 2 months, 10 days of age: 15.67 lbs. fat, equivalent to 19.45 lbs. butter; 452.8 lbs. milk. Owned by Lakeview Farm, Bronge.

milk. Owned by Lakeview Farm. Ont.

Rideau Bell (6624), at 5 years, 9 noonths. It days of age: 15.43 lbs. fat. equivalent to \$1.25 lbs. hotter: \$11.82 lbs. milk. 182 lbs. milk. Bell Tensen Helena (728), at 5 years, 4 months, 7 days of age: 15.34 lbs. fat. equivalent to \$1.91 lbs. nutre; \$41.5 lbs. milk Owned by Lakeview Farm. Bronte, Out.

Ont.
7 days of age: £6.42 lbs. fnt. requivalent
7 days of age: £6.42 lbs. fnt. requivalent
6 when by Lakeview Farm, Bronte Ont.
Olive Abbekerk Posch 2nd (5623, at 6,
years, 11 months, 24 days of age: 14.69
lbs. fat, equivalent to 19.55 lbs. hutter,
85.7 lbs. milk. Owned by Elias Snyder,

Bes. fat, equivalent to 13.5 lbs. butter; 48.5 lbs. fat, equivalent to 18.5 lbs. butter; 48.7 lbs. milk. Owned by Elias Burder, 18.5 lbs. butter; 48.7 lbs. milk. Owned by Elias Burder, 18.5 lbs. butter; 48.6 lbs. fat, equivalent to 18.3 lbs. butter; 48.6 lbs. milk. Owned by R. F. Hicks, Newtonbrook, Ont. Speckle Abbekerk DeK.; 1637, at 7 cres. s. 7 months, 9 days of age; 14.4 lbs. fat, equivalent to 17.6 lbs. butter; 49.5 lbs. fat, equivalent to 17.6 lbs. butter; 50.5 lbs. milk. Owned by R. S. Berwood, Brockeile, Ont. 11.6 lbs. butter; 50.5 lbs. milk. Owned by G. B. Sherwood, Brockeile, Ont. 11.6 lbs. butter; 50.5 lbs. milk. Owned by G. B. Sherwood, Brockeile, Ont. 11.6 lbs. butter; 50.5 lbs. milk. Owned by T. L. Dunkin, Norwick, Ont. 10.5 lbs. butter; 50.5 lbs. butter; 50.6 lbs. fat, equivalent to 17.58 lbs. butter; 50.6 lbs. fat, equivalent to 17.5 lbs. butter; 50.6 lbs. fat, equivalent to 15.5 lbs. butter; 50.6 lbs. fat,

0 months, 18 days of age: 13.59 lbs. fat. equivalent to 15.99 lbs. butter: 425.0 lbs. milk. Owned by Holbert Jerome, Glanford, 15 milk. Owned by Holbert Jerome, Glanford, 15 milk. Owned by Holbert Jerome, Glanford, 15 milk. Owned by Edwin C. Chambers, Fairfield Philis, Ont. Chambers, Fairfield Philis, Ont. 2 months, 7 days of age; 15.04 lbs. fat. equivalent to 25.66 lbs. butter: 490.5, at 4 years, 1 months, 7 days of age; 15.04 lbs. fat. equivalent to 25.66 lbs. butter: 325.69 lbs. milk. Owned by Smith & Dyment, Dundas, Ont. 10 milk. Owned by Smith & Dyment, Dundas, Ont. 10 days of age; 15.86 lbs. fat. equivalent to 19.82 lbs. butter; 155.2 lbs. milk. Owned by W. J. Balley, Nober, Ont.

Ont. Queen Inka DeKol (8987), at 4 years, months, 16 days of age; 15.43 lbs. fat equivalent to 19.29 lbs. butter; 481.4 lbs

mills.

Thirty-day test, at 4 years, 0 months, 15 days of age; 63,62 lbs. fat. equivalent to 79,55 lbs. butter; 1,55 lbs. mills. Owned by Lakeview Farm, Bronte, Ont. Tidy Mercedes Canary (620), at 4 years, 4 months, 19 days of age; 15-41 lbs. fat, equivalent to 19,56 lbs. butter; 554, lbs. mills. Owned by T. L. Dunkin, Norwich, Ont.

vich, Ont. Aulinda's Bonnie Lassie (8419), at 4 rears, 5 months, 8 days of age; 14.21 lbs. at, equivalent to 17.17 lbs. butter; 423.5

lbs milk.

Thirty-day test, at 4 years, 5 months, 8 days of age; 58.8 lbs. fat, equivalent to 69.75 lbs. butter; 155.9 lbs. milk. Owned by T. L. Dunkin, Norwich, Out.
Daisy Isable (1980), at 4 years, 2 months, 2 days of age; 15.5 lbs. fat, equivalent to 15.5 lbs. butter; 1867 4 lbs. fat, equivalent to 15.5 lbs. butter; 1867 4 lbs. fat, equivalent to 15.5 lbs. butter; 1867 4 lbs. fat, equivalent to 15.5 lbs. butter; 1867 4 lbs. fat, equivalent to 4.5 lbs. butter; 1867 4 lbs. fat, equivalent to 15.5 lbs. butter; 1867 4 lbs. fat, equivalent to 15.5 lbs. butter; 1867 4 lbs. fat, equivalent to 15.5 lbs. butter; 1867 4 lbs. fat, equivalent to 15.5 lbs. butter; 1867 4 lbs. fat, equivalent to 15.5 lbs. fat, equ

hard, Ont.

Dione Korndyke (11815), at 4 years, 11 months, 22 days of age; 15.21 lbs. fat, equivalent to 16.51 lbs. butter (20.3 lbs.

milk.

Thirty-day test (11515), at 4 years, 11 months, 22 days of age: 51.76 lbs. fat. equivalent to 51.86 lbs. butter; 125.78 lbs. milk. Owned by Lakeview Farm. Broste, 0.81. bc/sol (7999), at 4 years, 8 months, 23 days of age: 12.92 lbs fat. equivalent to 15.15 lbs. butter; 42.8 lbs. rilk. Owned by G. A. Brethen, Norwood, Ont. Jewel Gerben's Star (1993), at 4 years, 12 devel (Gerben's Star (1993), at 4 years, 24 bes. 12 devel (Gerben's Star (1993), at 4 years, 24 bes. 12 devel (Gerben's Star (1993), at 4 years, 24 bes. 12 devel (Gerben's Star (1993), at 4 years, 24 bes. 12 devel (Gerben's Star (1993), at 4 years, 24 bes. 12 days (1993), at 4 years, 24 bes. 12 days (1994), at 4 years, 24 bes. 12 days (1994), at 4 years, 24 bes. 12 days (1994), at 4 years, 12 days (1994), at 4 years, 24 bes. 12 days (1994), at 4 years, 12 days (19

wood, Ont.

Jewel Gerben's Star (8993), at 4 years,

9 months, 9 days of age; 12.02 bs. fat,
cquivalent to 15.03 bs. butter; 327.6 bs.
milk. Owned by T. L. Dunkin, Norwich,
Ont.

HOLSTEINS

WOODCREST HOLSTEINS



A few choice Bull Calves for sale; six to ten months old. Sons of Homestead Girl De Kel Sarcastic Lad,

and grandsons of Pietje
22nd. Recently tuberculin tested by
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Offers two, young bulls born September. 1910, one of them from a tested daughter of Brightest Canary and sired by a son of a 20.35 lb. yearling daughter of Hengerveld De Kol.

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RIVERVIEW HERD Offers bull ready for service. Sire, a son of King of the Pontiac; dam, a daughter of King Segis with over 22 lbs. butter at 3 years and 3 months.

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Three bulls fit for service and several bull calves. All sired by Count Henger-veld Fayne De Kol, most of them from A. R. O. dams with record up to 24 lbs. butter in 7 days. Write for descriptive cat-

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HOLSTEIN CATTLE THE MOST PROFITABLE DAIRY BR

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GLENSPRINGS OFFERS

Six fine pure bred bull calves from two to 10 weeks old. Every one from an offi-cially tested dam. Color markings to suit call the state of the color markings to suit of the color of the color markings to suit of the color of Count Gerben's sons. Those that wish Carmen Silva and Alta Posch blood secure one from Inka Silva Beets Posch. Prices moderate.

Posch. Prices moderate.
B. MALLORY, FRANKFORD, ONT.

FAIRVIEW FARMS HERD -HAS FOR SALE-

HAS FOR SALE—

HAS FOR SALE—

(world's record) ewe Pontiac Clothide De Kol and 37.20 lbs. butter in 'dwys. Be Kol and the Kol

(20)

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CATALOGUE Nº 99

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WOMEN'S ONE-PIECE

A VALUE

BARGAINS

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BARGAINS THAT EXTRAORDINARY GIVEN ONLY PRICES LOW

FOR JULY AND AUGUST SALE

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TORONTO

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