RM AND DA RURAL HOME



Peterboro, Ont., Nov. 11, 1915





FULL RATIONS GUARANTEED FOR THE WINTRY MONTHS.

Cut Your Work

IN TWO

By starting this season to Use a Small-Capacity

Cream Separator

The 1100-lb. size "Simplex" when at speed and skimming, takes no more power than the ordinary 500-1b. size Separator of other makes.



The favorite everywhere it goes. Note to beauty and heavy compact construction, with low-down, handy supply cannly 3 it from the floor.

The large-capacity "Simplex" Hand Separator will

Save you Time, Save you Labor Save you Expense

Because it will cut the labor of skimming the milk more than in two, not only because it turns easier than most other hand separators, regardless of capacity, but because it does the work in half the time.

In these busy days when labor is so scarce and so expensive, and so unsatisfactory, a saving in time is a great direct saving in money to you.

Now, while you have time to read, send for a copy of our book describing in detail, the improved "Simplex" large-capacity, Link-Blade Cream

Write us a post- 1rd to-day asking for the book

When writing ask for an stimate on what it will cost you to put in a B-L-K Mechanical Milker to Milk your cows.

D. Derbyshire Co., Ltd.

Branches: PETERBOROUGH, Ont. MONTREAL and QUEBEC, P. Q. WE WANT AGENTS IN A P.EW UNREPRESENTED DISTRICTS

Has YOUR BEST COW ever appeared in print?

Has her RECORD been published?

Many a good cow has been disgraced and her offspring "sold for a song" simply because her ability to produce was never well known.

If you have a Good One or Offspring from her, why not let your brother dairy farmers know about them in our big

SEVENTH ANNUAL

OF DECEMBER 9th

Write us to-night about our rates for this issue.

Advertising Department

Farm and Dairy, Peterboro, Ont.

A Progressive Brant County Club

NE of the oldest, strongest, and best farmers' clubs in the county of Brant is that known as the Falkland Farmers' Club near Paris, Ont. The work has been almost purely educational so far as it has gone, and of this side of Farmers' Club endeavor, they have made an outstand-ing success. The club members are now planning to branch out in a commercial way

The Falkland Farmers' Club was organized about eight years ago. Its was due to the energetic work of the charter members, Messrs. work of the charter members, Messrs. Harris, McGill, Harley, Leslie Ten-nant, and J. McKinnon. During the first year a few men of the neighbor-hood got together, gave papers on agricultural topics, and then discussed the views presented. For the last three or four years, however, a regular printed programme of the winter's work is drawn up in the fall by a

they have been a great help since.
"We have also visited other clubs When we visit another club, we give the programme and they supply the refreshments. When a club visits us, the arrangement is reversed. In our visit to the Central Brant Farmers' Club, near the home of W. C. Good. who is well known to you, we had a most pleasant evening.

The Women's Organization

"We have a live Women's Institute in this community, and they hold their meetings the same night, in the same house, but in a different room. two meetings work in splendidly te-gether, and one of the great weak-nesses of the Farmers' Club, which is purely a masculine affair, is avoid ed—we don't have to leave the wo men at home. We have found, too, that the Women's Institute is always willing to help us to the utmost in any way that we desire. Union meet-

Program of Falkland Farmers' Club

NOV. 24-MEETING AT J. ELMES. ... Arthur Bond Notes of Interest . Production and Marketing of Eggs J. McKin Reading DEC. 8.-MEETING AT T. HALBERT'S

DEC. 22.-MEETING AT J. H. DEPEW'S Notes of Interest Reg. Wall Bee-keeping on the Farm...J. H. Depew Rose Wall R. Geddie

Hints on Feeding Stock JAN. S.-MEETING AT W. KNILL'S. Frogramme provided by the Boy Members of the Falkland Farmers Club. Committee: Boy Priest, Earl Sibbick, Paul Clement and Allen Pottruff. JAN. 19 .- MEETING AT C. W LEE'S.

Address

... A. W. Vansickle

FEB, 2-MEETING AT HALBERT'S

Union Meeting.
Programme to be arranged. FEB. 16-MEETING AT E. HARLEY'S

Notes of Interest ... Earl Sibbick
"How to Grow your Own Seed for Farm
and Garden" . R. Schuyler, B.S.A.
"General Care of Banyard Manure and
its Application" ... John Elmes

MAR. 16 .- MEETING AT J. McGILL'S. Noice of Interest W. Drewitt Debate—"Resolved, That Grain Farm-ing is Preferable to Stock Farmina," Affirmative—F. Pottruff, E. Stewar, W. Brooks. Negative—Fred Gurney. Bert Barker, J. Blake. "Farm Management" G. Folsetter

MAR. 30.-MEETING AT G. KNILL'S. Notes of Interest E. Hariey
"Weeds and Their Control" ... O. Luck
"Growing, Harvesting and Feeding Ensilage Corn" H. Elliott

APRIL 13-UNION MEETING. Programme to be arranged.

strong representative committee of old and young members. Each member must accept the part allotted to him without question. The motto printed on the first page of the programme reads: "The Falkland Farmers' Club with the programme reads: "The Falkland Farmers' Club with" expects every man to do his duty. expects every man to do his duly. "When in Brant county recently, a Farm and Dairy representative called on Mr. Austin Clement, president of the club, and we cannot do better than tell of the Club's activities as Mr. Clement told them to us.

Competition Stirs Interest "For some years," said Mr. Cle-ment, "we carried on a game contest and the side that scored the lowest number of points would provide an oyster supper or some other form of entertainment for the whole club. Last fall, and we have arranged for the same this fall, we had a plowing competition, and found it very sabis-factory and profitable. We appoint two good plowmen as captains and divide the club as evenly as possible. The side scoring the lowest number of points has to provide a treat for the whole club, and also the Woman's Institute. I mention these two feat-ures first, because we find they help to maintain an active club interest.
"We have made the educational work our first consideration, and in

work our first consideration, and in connection with it we introduced a new scheme last winter. We gave an evening to the boys. They took hold of it splendidly, and gave one of the best evenings of the winter. This plan brought out much material we might not otherwise have found, and

ings of the two organizations are sometimes held in a hall in the community and both contribute to the programme. We often have refresh-

programme. We often have refresh-ments at these meetings."

Speaking of other phases of the club activities, Mr. Clement said:
"Last year we started a Seed Grow-ers' Association, which will work in well with the club. We selected Banker. mer oats as our specialty, and are growing our first crop this year. Our district representative, Mr. Schuyler.

"This past winter we held a stock judging course of one day in coopera-tion with the Central Brant Club. We found this extremely helpful, particularly to the young fellows. The judges were supplied by the Provin cial Department of Agriculture.

Over 70 Members "We have over 70 members in our club now, and they crowd a house right full," said Mr. Clement in speaking of the progress of the club. "We plan to scatter the meetings all over the section so that every member will have an opportunity to attend at least a few of them. I am satisfied that this movement is interesting the forum men of the community in the farm. My own son, a boy of 18, was induced in this the transmission of the community of the farm. nduced to take the two weeks' course in agriculture in Paris, and has been much more interested in the farm

"We have not done much in a co mercial way. One of our me. bers (Mr. Geddie) owns a share in the (Continued on page 7)



Trade increases the we

Vol. XXXIV

M RS. Weaver was light-stepping lar had not enjoyed the dir been a guest at their manner had seemed a

depressed in some indet She had watched her as he listened to the g his lips closed more ti had not made any di agent's glowing descri yond the Rockies, his parison of its forests a rivers' and mountains w the prosaic levels stret ing away from the Wear

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hat was far back on With his smo brow, his blue eyes, ruddy cheeks and flowi white beard, he made ideal picture of old m hood. And then his wife's e

full of pride, saw him to and gaze away over country slowly, until had circled the horiz She watched him acros makers in an adjoini grew distant and wist over her lined face. P the yard and moved : The path was bordered Mrs. Weaver's clean pr it. On through the p at the edge of the orch Her hands crept over gers slipped gently int worn, ill-shaped initia

*This is a home story, he old associations that who have spent the best who have spent all the conditions as not apply in Janad over is the same in all the selieve this little sketch uppreciation by all of Offiction in Farm and Data

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

No. 45

The Soul of the Old Homestead

M RS. Weaver was glad to see the dapper, light-stepping land agent drive away. She had not enjoyed the dinner hour in which he had been a guest at their table. All his talk and manner had seemed an affront. She had felt depressed in some indefinable way.

She had watched her husband a little uneasily as he listened to the guest, his blue eyes keen, his lips closed more tightly than usual. But he had nor made any direct answer to the land agent's glowing descriptions of the country beword the Rockies, his subtly insinuating com-

parison of its forests and rivers and mountains with the prosaic levels stretching away from the Weaver

Vol. XXXIV

Mr. Weaver had said almost nothing, but the color in his hale old face had deepened. Soon after the meal he had gone out courteously to assist the little man with his horse. Now he was standing outside the front fence looking after the agent's disappearing vehicle. His hat was far back on his With his smooth brow, his blue eyes, his ruddy cheeks and flowing white beard, he made an ideal picture of old manhood.

And then his wife's eyes full of pride, saw him turn and gaze away over the country slowly, until he had circled the horizon.

She watched him across the road to join the haymakers in an adjoining field. Her grey eyes grew distant and wisfful and a shadow rested over her lined face. Presently she went out into the yard and moved slowly down a side path. The path was Jordered with sweet alyssum, and Mrs. Weaver's clean print gown brushed against it. On through the picket gate and she stood at the edge of the orchard.

Her hands crept over the gatepost and her fingers slipped gently into the grooves of weatherworn, ill-shaped initials that scarred it. They By E. R. JOHNSON, IN NEBRASKA FARMER were old, old scars, these in the gatepost, as old as some of the apple trees that cleft the tough sod of the orchard and lifted broad, fruitful crowns above their gnarled trunks—nearly as old as these. And yet she could almost hear the scraping and rasping of the dull blades, could

as these. And yet she could almost hear the scraping and rasping of the dull blades, could almost feel the childish enthusiasm over the task of carving those letters. She ran her fingers over them tenderly and sighed to see them so blackened and old.

Now she walked by the side of the orchard

m so by dreamfully with fold Eays in which to lister insect-hum, watch the n

country slowly, until he "The Soul of the Old Homestead Was There Breathing from Every Room, Stealing from Every

fence. Ragweed grew there in tall abandon, left to thrive because of the summer's pressing work, and she found unexpected beauty in the sturdy stems and brown tops. Here and there among them the milkweed pods had burst open. Shook them and their sliken-winged seeds floated softly out on the air like dusky elves on fairy parachutes.

By and by she neared the maple tree that had "volunteered" and had been allowed to stand at the edge of the orchard. Time was when a discolored rope had swung there from its strong branches, and a worn, dusty patch had marred the green sward below.

Her eyes grew soft. She was thinking of the small girl who had used to like to swing there, but who had gone to other realms. How the memories tugged at the old mother's heart to-day. Above her was a warm sky fading to faintest blue over the close-cropped brown hill in the distance, but bending in braver tirt over the old orchard. Every autumn for thirty years Mrs. Weaver had seen just such a sky as that over the homestead, bending over just such days as thie. Days having the warmth, sometimes almost ne color of springtime, but yet lacking that intangible spirit of new awakening. Days to let slip by dreamfully with folded hands and quiet eyes. Days in which to listen drowsily to the sociable insect-hum, watch the robins hop about in bright-

eved silence, smile to see
the blackbirds fl-shing
their vanigotious feathers
in the sunshine. Days
when the long heat of the
summer gave fruitful evidence in the fields where
the corn-buskers shouted
at their horses and three
with unerring swiftness
into the creaking waggons the firm, golden
ears. Days such as this
—the, old woman lifted
her face.

Under her feet the grass grew long and thick and green. It hugged the earth closely, as if a wind had passed over it. Here and there glinted the silvery flash of coweb. Apples had dropped down and lay there, vivid red against the green.

Mrs. Weaver picked one up and held it while she looked at the trees whose

looked at the trees whose over burdened branches were propped with poles. Absently she rubbed the purple bloom from the apple.

She herself had helped plant many of these orchard trees. She had watched them grow from mere seedlings to this. She had gloried in the lengthening of the branches, year by year, and in the thickening of their trunks. She had belped build the smudge when the frost would have blackened their blossoms. She had seen their petals drift through the air of so many sprinetimes. Every autumn she had come for their fruit, at first with her husband, then also with her children. Their laughter haunted the old orchard still.

And here was the boundary fence of the orchard. And beyond, and beyond, lay all that (Continued on page 7)

This is a home story. It breather of the old farm, the old associations that have been so dear to all she have spunt the best part of their lives on the one farm. All the conditions of this Nebreaku story are not apply in Chands, but the spirit of the farm were it the same in all countries and all climes, and were it the same in all countries and all climes, and previously little sketch will be read with sufficient factories.

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Dairying on High-Priced Land

T is a long time since beef cattle men have had the temerity to claim that good beef steers would rank as money makers with wellbred dairy cows. It is not often even now, however, that a beef cattle enthusiast pays such a tribute to the money making proclivities of good cows in the hands of good dairymen as was recently paid by President H. J. Waters of the Kansas Agricultural College, when he addressed the members of the Ohio State Dairymen's Association as follows:

"I always feel somewhat embarrassed when I attempt to talk to dairymen and to men who are producing dairy products, because I am not a dairyman. I am a beef man, and if I know anything of live stock at all, it is along the line of beef production, and yet I appreciate as keenly as any one, that the beef business is not econemical when it comes to intensive agriculture. The beef steer is not the economical producer that the dairy cow is. The dairy cow is the only animal that can stay on high-priced land and make a profit. You cannot feed high-priced products to the beef animal and make a profit, but the dairy cow can stay on the highest-priced land. On portions of the Jersey Isle, where the annual rent is from \$50 to \$60 per cow, they can afford to pay the rent. It will be the basis of permanent agriculture, not only in Ohio, but in Kansas and everywhere, and the dairy cow must be the basis of it."

Some Thoughts on Draining

Alice A. Ferguson, York Co., Ont.

RAINING pays." So says our Mr. Man with a complacent air, as he compares our shorn acres with those of some other farmers, who could not cut their crops because of the Well, it should pay, we women think, when we consider the length of time the ditchers have stretched their legs under our table, and fattened their horses in our stable.

But Mr. Drainer has his side of the question "Well," says he, as he drags himself wear-· ily in to dinner, "if there is a specially good place in the hereafter, it should be kept for drainers, for what with stones and heavy clay, it is hard to keep from saying bad words sometimes." Just now the old stone drains are his bugbear. "You might as well put a couple of those pigs up to fatten, for we're going to stay with you. We've struck a stone drain and it looks as though we're following it up."

Pioneer grandfather - nearly a century ago drained the farm, laying miles of stone drains The slabs collapsed in time, and slab drains. and the stone drains became choked with earth. The next generation veined the farm with tile drains, and this generation is at it with cement tiles. It should pay.

The Labor Difficulty

The difficulty is to get men to do the work. Draining seems to be a lost art. No more have we "Honest John Tompkins, the hedger and ditcher." An old Yorkshireman in past years tunnelled the farms in this and neighboring townships. He was a character. One day he came to dinner in a very bad humor. After eating the keen edge off his appetite he loosened up sufficiently to say that a stone had been bothering him all morning, and he couldn't get it out. "Oh," said Uncle, "we'll soon fix that. We'll blast it."

"You can't get it out that way," exclaimed William. "I've blasted it all forenoon, and it's in there yet.

In a neighboring township a farmer had sixty acres of grain which he could not cut, as the earth was water-clogged, and in other places the grain was standing in water. "If we could get men to do the work, we could soon dispose of a

carload of tile," said a dealer. What about Mr. Out-of-Work? Can he dig? Draining seems to be a profession not overcrowded. Could not a graduate of the O. A. C. superintend such a work and educate some of those out-of-works into the mystery of draining? No one need be ashamed of the job. It is what our soldiers are doing practically. If they can bend their backs, handling pick and shovel, for home and country, why cannot others do their bit?

Calf-Raising at Riverside

THE residence of the younger members of the Riverside herd, the property of J. W. Richardson, Caledonia, Ont., is all that any calf could desire. Two ply of boards, two ply of paper, and



Calculate the Height of This Silo.

fr. Henry Glerdinning, its owner, who may be seen tanding beside it, is six feet three inches in height. In didition to its canacity above ground, there are either over or or underground. Mr. Glendinning has alway open an ardent advocate of alfalfa. This illustration howen his appreciation of its natural supplement, cor how his appreciation of its natural supplement, cor

a sheeting of galvanized iron keeps out the wind and frost. Sunlight is admitted by 13 windows. They are all double glassed. The upper part drops back, making every window a fresh air inlet. The foul air escapes through openings near the floor and is carried up to the roof by two six-inch shafts. The 10-foot ceiling aids ventilation

The building is 60 feet long and 24 feet wide. Down the centre runs a five-foot passage. The iron pens are each provided with five stanchions. In front is a shallow trough. This holds the pails containing each calf's allowance. When every pail is in position the calves are allowed to stick their heads through. When the pails are removed they receive a handful of chop and are kept imprisoned until the desire to taste one another's ears is dissipated. A narrow gutter runs through each row of pens and the troughs can be washed into it. Everything is kept scrupulously clean. Each calf has his individual sap bucket, and it is washed and placed in the sun after each meal. Scours are unknown.

The calves receive whole milk during the first

month of their existence. Then they are gradually introduced to skim milk. Mr. Richardson finds that gruel made of one part pure oil meal, two parts oil cake, and three parts low grade flour is the best and safest substitute for butter fat. It is made into a gruel and a small quantity add ed to each part of skim milk. Oats and bran are fed dry

An overhead track runs from the separator room through the calf barn and down to the piggery. A flat litter carrier conveys the milk to the points of consumption. The calves get their hay from an iron rack on the pen divisions. One water bowl also serves two pens.

Calves kept under these conditions, where they have warmth, sunlight, ventilation, cleanliness, and liberal feeding, obtain a great start in the race for records.

Farm Profits or Speculative Gain

By "Uncle" Henry Wallace.

OW to make the farm pay is a big problem with every individual actual farmer in the entire nation. How to make farming pay is a big problem with the entire nation itself. For if farming ceases to pay, farmers will cease to farm and the bottom will drop out of the biggest single industry in the nation, on the prosperity of which industry depends the prosperity of all other classes of business.

We must draw a clear and sharp distinction, however, between farming and land speculation. The bulk of the profits accruing to the farmers of the United States in the last eighteen years has accrued not from farming, but from the advance in the price of land, and the price has nothing to do with the value, that is, its ability to produce. In fact, the farms in the corn belt selling at a hundred and fifty dollars an acre on the average, produce no more bushels and tons than they did thirty years ago, when they were worth but fifty. The produce sells for more dollars, but this is due not to the skill of the farmer, but to the advance in the price of grain and live stock. This, again, speaking generally. is due not to any skill of the farmer, but, as in the case of the advance in land prices, to the exhaustion of the government domain.

The profits from speculation in land are temporary; and in case land should cease to advance, as it must do sooner or later, there is danger of heavy loss. The whole history of agriculture in this nation, and in other nations, shows that when land has advanced to a point where it will not pay a satisfactory profit to its owner, it begins to decline in price. And then speculation means not a safe, easy way of getting rich, but a sure, and rapid, and rough way of getting poor. Therefore, the problem of how to make the farm pay should take no account of speculation in land, but it does take account of the prices of farm products.

If one has a market for very young lambs at a good price, I believe it is best to sell them. I do not think it is good policy to put all the lambs on the market in the fall as is the custom here It would be better for the trade if part were kept over and fed through the winter and sold in the spring when prices are good .- Donald Innes, Victoria Co., N.B.

The cows in our herd look almost exactly like moolies, so well have they been dehorned. The method we follow is to cut off the horn so close as to take some of the skin with it when the heifer is one year old. The job is done with a fine-toothed dehorning saw. We think that if anything, this method is less painful than the caustic potash method, and more certain to accomplish its purpose. I have seen horns grow out that have been treated with caustic potash. -Henry Glendinning, Ontario Co., Ont.

" HE first thing his attention; what is wanted. based on reward should immediately

The plan genera colt to being led an and to break to har and three years. C do heavy work unti years old and shoul ed to it gradually.

Before a colt is b led it should be t tied; this applies horses of all ages. a strong halter on take a rope about double it, putting the horse's tail as the two ends toget times so the twiste the colt's back a fe of the tail, then let ward on each side o tie them together i the chest just tight it will not drop do surcingle loosely a behind the withers the crupper rope a

Have an addition feet long, run it th it at the breast to per. Tie the other post, allowing abo the colt tied for an have a loop in one strap through this slack to the rope other end, of cours Teach

While tied the c customed to being hind parts, and on headstall in one l pet and rub the co then on the back a To gentle the hind feet long, wrap a and the it. Allow with his abse, then

With this arra ment the colt's legs may be ru without placing self in danger of heels. If he kicks do not hit him, be low him to exami again, and procee before. This le should continue the colt will stan ing approached either side and ru all over. The se day he may be tie again and further tled with sacks, kets and noises un has no fear of around him, under or upon him.

Another metho gentling a horse tie the halter ro

The Colt's First Lessons

His Future Usefulness Depends Largely on His Early Training

THE first thing in training a horse is to get his attention; second, make him understand what is wanted. The education of the horse is based on reward and punishment, and each should immediately follow the act.

The plan generally followed is to break the colt to being led and handled before it is wean, and to break to harness between the ages of two

and three years. Colts should not do heavy work until they are four years old and should be accustom-

ed to it gradually.

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Before a colt is broken to being led it should be taught to stand tied; this applies to unbroken horses of all ages. To do this, put a strong halter on the colt; then take a rope about 14 feet long, double it, putting the loop under the horse's tail as a crupper, twist the two ends together about three times so the twisted rope lies on the colt's back a few inches ahead of the tail, then let one come forward on each side of the horse, and tie them together in front against the chest just tight enough so that it will not drop down; then run a surcingle loosely around the horse behind the withers, tying into it the crupper rope at both sides.

Have an additional rope about 12

feet long, run it through the halter ring, and tie it at the breast to the rope that forms the crupper. Tie the other end of the rope to a solid post, allowing about three feet of slack. Leave the colt tied for an hour. Another method is to have a loop in one end of the rope, run the lead strap through this loop, and tie it with a little slack to the rope that forms the crupper, the other end, of course, being tied to a solid post.

Teach Him to Stand Tied

While tied the coit should be gentled and accustomed to being handled on both sides, on thind parts, and on the legs... To do this, hold the headstall in one hand and with the other hand per and rub the coils, first on the neck and head, then on the back and sides, and last on the legs. To gentle the hind parts take a stick about four feet long, wrap a gunny sack around one end. and its. Allow the coit to examine the stick with his lose, then rub it all over his body.

With this arrangement the colt's hind legs may be rubbed without placing one's self in danger of his heels. If he kicks at it do not hit him, but allow him to examine it again, and proceed as before. This lesson should continue until the colt will stand being approached from either side and rubbed all over. The second day he may be tied up again and further gentled with sacks, blankets and noises until he has no fear of them around him, under him or upon him.

Another method of gentling a horse is to tie the halter rope to the tail. This forces him to go in a circle. When he gives in and stands quietly he may be harnessed, saddled, mounted, accustomed to strange sights and sounds, and handled with safety. This is one of the best aids in use in gaining a horse's submirsion.

The horse is now ready to lead. Loosen the rope from the post, step off from the horse, and



Placing the Carriage Classes at the Lanark Fair.

tell him to "come," following the command with a pull on the rope. As soon as the horse advances pet him, then step away and repeat. He will soon follow without the pull on the rope.

The next day the crupper should be put on at the beginning of the lesson, but should be discarded after a short workout and the halter alone used so that the colt will not depend on the crupper rope. These lessons should be continued until the colt leads satisfactorily.

To break to lead without crupper ropes use a strong halter with a lead rope. Step back about six feet from the colt, opposite his shoulders, clucking to him, and pull on the rope. The colt will be forced to take a couple of sleps; reward him, cross in front to a similar-position on the other side and repeat the command with a pull. Continue the lesson until the colt follows. Never pull straight ahead on the colt; he can outpull. Use diplomacy rather than force.

Breaking the Colt to Drive

After the colt has been broken to lead he may be accustomed to the harness and trained to reis. The horse should never be hitched to a waggon or ridden before he is broken to drive in the harness. He should be trained to answer the ordinary commands. In familiarizing the colt with bit and harness the "biting harness," which

consists of an open bridle with a snaffle bit, check and side reins, and surcingle with crupper, may be used. This rigging is put on the colt, leaving the side and check reins comparatively loose, and he is turned loose in a small paddock for an hour.

The second lesson consists of teaching the colt the feeling of the reins, which may be tightened somewhat. The third day the driving reins may be used and the colt is taught to go ahead. Cluck te the colt, or tell him to "getup," use the whip, and let him know what is meant.

Both sides of the colt should be trained, as objects viewed from different angles may frighten him badly. Driving in a right and left circle will facilitate this training. The next lesson consists in teaching the horse to answer the com-

mands of "Whoa!" "Getup," and "Back."

After teaching the horse to go satisfactorily is
the bitting rig, the work harness with breeching
can be substituted. The traces and breeching
should be joined losely together and gradually
tightened as the work progresses, thus familiariring the colt with the sensation of wearing the
collar and breeching. He is then ready to be
hitched to the waggoon or cart, single or double.

—Farmers' Bulletin 667, U. S. D. A.

Horse Efficiency

ONE of the most frequent sources of loss on the farm is an insufficient return from work horses.

Have you satisfied yourself on the following points?

Do your horses earn enough to pay for their feed and care, and enough to meet the interest

depreciation, and other expenses, as harness costs and shoeing?

It costs \$100 annually to keep the average horse, in Minnesota, but this horse works only a little more than three hours each working day. This makes the horse labor cost approximately 19 cents an hour.

Do you handle the horse labor on your farm so that the annual cost of keeping your horses is less than the average, or so that the number of hours worked is greater? Both methods will reduce the cost of horse labor, (Continued on page 8)



A Well Trained Team is a Constant Source of Satisfaction.

The Ontario Provincial Plowing Match a Popular Event

Plowing Competitions and Tractor Demonstrations Divided the Interest. The Attendance Numbered Thousands.

Several factors account for the popularity of the event. It was held on the grounds of the Ontario Agricultural College, and a visit to the plowing match also afforded several thousand people an opportunity to inspect the college as well. Then, again, the match was situated in the centre of a large agricultural dis-trict, easily reached by hundreds of auto-owning farmers; all of the drives near the field in which the contest took place were lined up with farm autos. Finally, there was a farm autos. traction demonstration, one of the first ever held in Ontario. As a res sult of all of these factors, there was a record attendance, conservatively estimated at 2,500 and by some competent estimators placed as high as 4,000 people, the majority of whom were practical farmers.

Altogether 29 plowmen competed. Altogether 29 plowmen competed.
These were men who had proven their superior ability at previous county plowing matches, and they met at Guelph to compete for provincial honors. York county was most largely represented, and it was noticed that the York county plowmen, almost to a man, brought with them the long Scotch iron plows, a type which still holds its own in plowing matches, although it is but little used in the practical work of the farm. One of the most interested spectators of the events was Jas. Lay, the blacksmith of Markham, Ont., who made many of these iron plows, and who told us that previous to the opening of the plowing season this fall, had overhauled all of the iron plows on the hauted all of the tron plows on the field. There was one of the plows that he did not make, however. W. L. Clark, of Ellesmere, plowed with the same implement that Ontario's one-time foremost farmer, Mr. Simpson Rennie, used in the matches in son Rennie, used in the macches in which he competed many years ago. This old plow was imported from Scotland over 60 years ago. In con-trast with these old fashioned plows, there were new ones almost direct from the factory with the paint fresh and new. Youngsters and Veterans Were There

The age of the plowmen varied almost as greatly as the age of the plows. For instance, there was young Clifford Knutt in the class for boys under 18, who did great work in sod in spite of the fact that he was plow-ing with a team he had never handled He showed the kind of plowmen that York county is producing to sustain its reputation in plowing matches of the future. At the other extreme, old Mr. Milliken turned over his furrows as usual, in spite of his 81 years and the infirmities that come with such an advanced age. This old man has had a wonderful experience in plowing matches. He competed first in 1864, and between then and first in 1804, and between then and 1906, won 33 prizes. The last pro-vincial plowing match before the event was dropped for several years, was held on Mr. Milliken's farm at Hagerman, and there were 66 competitors. Another olt-time plowman who watched the event with the greatest of interest was Josiah Smithson, of Datesbuce county. Both of these of Peterboro county. Both of these hale old men are still enthusiastic plowmen, and both were willing to give full credit to the young men, who plowed last Friday, for the good work they were doing. The sweepstakes award went to Mr. Thos. Shadlock, of Agincourt, in York county, and the

VTARIO'S Provincial Plowing best boy plowman of the day was Wm. match, beld on Friday of last Eby, of Berlin. The awards in full week, was an unoualified suc-follow:

The Winning Plowmen
Sweepstakes trophy donated by
Canadian Farm: Thos. Shadlock,

Agincourt.
First Class, sod, open to all, six entries: Thos. Shadlock, Agincourt; 2, Thos. Swindle, Orillia; 3, Wm. Orr, Maitland; 4, Garfield Ley, Oril-

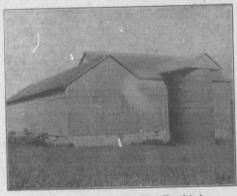
2nd Class, sod, open to those who never won a prize in this class prior to 1915, six entries: 1, W.L. Clarke, Ellesmere; 2, Stewart Baird, Woto 1915, six chites: i, when the sird, Wo-burn; 8, P. Woods, Elmira; 4, Alex. Stewart, Guelph.

Third Class, boys under 18 on sod: Clifford Knutt, Minesing.

almost find a place. The crowd who assembled at Guelph to witness the tractor demonstration were not drawn there by curiosity. The greatest inyas shown, questions asked by the dozen, and several tractors were sold during the day.

Altogether there were four tractors demonstrated. Many of the visitors for the first time in their lives saw 10 furrows turned over at one opera-tion, or 20 furrows to the round. This looked like "Big Business." This Sawyer-Massey machine did its best work in the fairly heavy soil of the college farm with a six-bottom gang. The main interest, however, was confined to the smaller tractors, which mned to the smaller tractors, which was generally agreed were the only ones adaptable to Ontario farm conditions, unless it be under very exceptional circumstances. A brief description of each of these smaller tractors may be in order.

The first on the field was the "Mogul," manufactured by the Inter-



The Problem of Strengthening The Silo is Here Solved.

Stave sites ordinarily constructed are not occure against heavy windstorms, except when full of essilage. A roof of any hi of edds to its security. The illustration herewith shows a sile made double secure by attaching the sile roof permanently herewith shows a sile made double secure by attaching the sile roof permanently

Fourth Class, jointer plows in sod, two wheels, or shoe or share, not less than 9 inches, eight entries; 1. H. E. Alton, Rockwood; 2. W. A. Gray, Rockwood; 3. R. Wright, Galt; 4. Len Lorce, O.A.C., Guelph.

Fifth Class, jointer plows in sod, boys under 17, two entries: 1, Wilfrid Tolton, Guelph; 2, Geo. Rodgerson,

Fergus.
Sixth Class, boys in stubble under
16: 1, Wm. Eby, Berlin; 2, Chester
Ley, Orillia; 3, Albert Habermehl,

Hespeler.
Seventh Class, two furrow plow, three horses to be used from start to finish, three entries; 1. Leslie Vincent, Ayr; 2. Norman Wallace, Galt; 8, E. A. Tolton, Guelph.
Best team and equipment; 1, Thos. Shadlock, Agincourt; 2, Clifford Knutt, Minesing; 8. Geo. McPhee, Puslinch.

Best crown in first class: Thos. Swindle, Orillia.

Best crown in class six: Wm. Eby

Berlin.
The Tractor Demonstration Interest at the recent Provincial Plowing Match was not limited to the usual competitive events. In fact, in-terest was seriously divided. There was a tractor demonstration running concurrently in an adjoining field, and the crowd was fairly evenly divided between the two events. Ontario conditions may be such that the horse will always take first place as a farm power, but there is a growing con-

national Harvester Company. tractor is designed to act as an round farm power. On the belt it delivers 16 H.P., enough to run the threshing machine, fill the silo, grind grain and do all other kinds of work for which the farmer requires mechanical power. On the draw bar the "Mogul" exerts 8 h.p. During the days of the tractor demonstration, attached to an Oliver three-gang plow, it did great work. It had one feature lacking in all the other tractors shown in its self-steering device. Once the in its self-steering device. Once the machine was turned at the end and started down in the new furrows, it required no more attention until reached the other end of the field. was a decidedly novel sight to visitors to see the driver of the Intervisitors to see the driver of the Inter-national tractor get off his seat and go and inspect the work of other tractors while his own machine was chugging down the field without any personal attention. The price of this machine is 8875, and its type em-bodies the results of 20 years of tractor manufacturing by this company.

Next on the scene was the Case This tractor is built on an tractor. altogether different plan. It is compactly constructed, and all parks are close to the ground. It delivers 20 h.p. on the belt and might therefore be more efficient than the Interna-tional engine for filling a high silo or running a heavy threshing ma-

viction that the light tractor might chine. On the drawbar it exerted 10 almost find a place. The crowd who h.p. It too is designed to draw a three or four-furrow plow. A radical difference between this macnine and the other tractors demonstrated, was that practically all of the power was exerted on one big drive wheel, the principal being similar to the traction wheel of the self binder. Through this device the Case people are able to get away from the side draft difficulty in plowing. It \$1,030 f.o.b. Toronto. It was priced at

A Popular Priced Tractor Both the International and the Case firms were at a disadvantage in that they were under the impression that they were under the impression that tractor plowing alone would be de-monstrated at Guelph. By far the most practical demonstration of the day, therefore, was given with the Avery tractor, made at Preoria, Ill. Many who had been shaking their beach doubtfully all day and proclaimheads doubtfully all day and proclaim-ing confidently that the tractor would never find a place in Ontario began to doubt the wisdom of their preconceived opinions after they had wit-nessed all phases of the Avery demon-stration. This is a light weight, gas or oil tractor. It exerts 10 h.p. at the or oil tractor. It exerts 10 h.p. at the belt, and would therefore be at a disadvantage for some heavier farm pow er requirements. On the drawbar its rated power was 5 h.p. Its price rated power was 5 h.p. Its price proved a most attractive feature, \$425 delivered at any point on the International boundary and with duty

Previous to the arrival of the Avery tractor, four good sized farm horses had been demonstrating a Smith cultivator, and found this new implement about all that they could handle. The Avery demonstrator hitched his little machine to the cultivator, dug in the cultivator plows to a maximum depth and went off with apparent ease. Later he hitched to a 16-foot drag harrow, and at the invitation of the crowd climbed a steep hillside, negotiated a couple of very deep, dead furrows, and came back without trouble. Finally, this small tractor was hitched to two large sized disk harrows, one behind the other, both of them of sufficient size to call for three-horses, and hauled them with apparent ease.

This is the first time that tractors have played a part in a Provincial Plowing Match, and here we will tell a little story. Many years ago "Uncle Jimmie Patterson" established one of the first plowing matches ever held in the United States. A match has been held every year since on "Uncle Jimmie's" farm. But this last year the tractors were so numerous and the interest in them so great, that the horses were found to be almost superand may be done away with altogether another year. We do not believe that the Ontario Provincial Plowing Match will develop into a tractor demonstration only, as has "Uncle Jimmie's." We do believe. however, that the tractor demonstra-tion at Guelph last week was a conclusive answer to many of those who had previously believed that the small farm tractor was not a practicable machine, and would never find a place in Ontario agriculture. It would seem that the farmer who can, through the use of a tractor, dispense with one or more teams of horses, might find the tractor investment a decidedly profitable one.

Milk shippers on the British Columbia Lower Mainland certainly cannot complain at the Canadian embargo on an United States dairy products. The market for whole milk has been incursuarizably improved by it. Formerly large quantities of Washington State milk came into Vancouver daily. Now the local producers have the market entirely to themselves.

A Prog

United Farmers' C pany, Limited, and through him. Probab out more strongly i The great d year. The great of have in organizing week is that the me club is widely scatte business at different It would be necessa "Sociability and

great thing with us ment. "I lived he years, but through met dozens of people too, whom I never had it not been for Cur club has open new field for social

The fees of the I Club are small, 10 joining and 10 cts. meetings are held house, the printing practically the o that is necessary to county club an idea linked up with the Ontario, and thus vincial field a mea influence that it

Soul of the O (Continued f

smooth, rolling co there a field darker ed ground ready away, in every disharvest of ripe ma golden sweep of the leaves unfurling to be stripped and le stalks to stand like the winter sun. his advancing yea how stark the prai On commanding

of the Little Blue were scattered pr each by its grove tonwood, bronzed The smoke rose s chimneys. And for road went out to n

The high road. had been but a Now it was kept with the yellow du had changed as given place to la had given place t sunflowers grew the wild grass to colors to the sun.

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A Progressive Brant County Club

(Continued from page 2)

United Farmers' Cooperative Company, Limited, and we have got feed a through him. Probably we will branch out more strongly in this line next strongly in this line next strongly are great difficulty that we will branch under the company of the co year. The great difficulty that we have in organizing for commercial work is that the membership of the club is widely scattered, and do their business at different shipping points. It would be necessary to do all club business at one point. "Sociality and "rindfiness". "Sociality and "rindfiness" in the social serior in reality the social serior in the social ser

years, but through the club I have met dozens of people, splendid people, too, whom I never would have met had it not been for our organization. Cur club has opened up a splendid new field for sociability and friendli-

The fees of the Falkland Farmers' The fees of the Faixfand Farmers' Club are small, 10 cts. a member on joining and 10 cts. a year. As the meetings are held from house to house, the printing of the programmes is practically the only expense. All that is necessary to make this Brant county club an ideal one is to get it need up with the United Farmers of inked up with the United Farmers of inked to the state of th Ontario, and thus exert in the pro-vincial field a measure of the good influence that it is now exerting

Soul of the Old Homestead (Continued from page 3)

smooth, rolling country. Here and there a field darkened with new-plow-ed ground ready for seeding, but away, in every direction, the tawny harvest of ripe maire. Ah, the rich, golden sweep of those fields with their golden sweep of those helds with their leaves unfurting to the breeze, soon to be stripped and left with only their stalks to stand like bare lances under the winter sun. The Indian corn, hope of the old-time settler, pride of his advancing years. Robbed of it, how stark the graine,

On commanding rise or in curves of the Little Blue the farm houses were scattered prosperously, shaded each by its grove of maple or of cottonwood, bronzed now by the frosts. The smoke rose screnely from their chimneys. And from each a shaded road went out to meet the high road.

The high road. In those first years it had been but a faint double track. if had been but a faint double track. Now it was kept smooth and wide with the yellow dust thick upon it. It had changed as small homes had given place to large, as poor years had given place to, prosperous ones. Along its bordering fence the yellow sunflowers grew like sunshine, and tolors to the sun.

Over all the old woman's eyes rov-ed and rested, all that landscape, dear

ed and rested, all that landscape, dear and familiar as a friend's face.

The fall of waters, the anowy dome of mountain, the blue of ocean, the depth of forest—did not beauty wear as well the face of the prairie gweep-ine away into unived distances, with the peace it is maize fields, the com-fort of its planted growes? Héauty was here, growing and warming with fort of its planted groves? Beauty was here, growing and warming with unexpected enchantments under the old woman's eyes.

And now, the nearest fields.

And now, the nearest fields. She came back to them. She remembered them as they had looked before plow had ever touched their flower-strewn sod. She remembered her young husband as he had made the first furrow. She remembered the hot winds that had swept over them, the snows that had heaped them, the rains that had freshened.

And she was dreaming of a boy in

the first time, with the reins proudly tied about his waist. A boy straddl-ing across a great horse and coming riding home at noon under the hot sun -those days, those harvests!
The old woman turned now and

went through the orchard once again and came to the grove of cotton woods that bordered the Little Blue. She lifted her eyes upward, upward, to the far tops with their secret rus tlings and the sunlight sliding down between their yellow leaves. Old trees of nature's planting, bond of her hospitality, shelter against her

Nearby ran the Little Blue. Ah, little stream, how deeply it had worn its banks in the thirty years she had known it, how thread-like had become its once swelling current. The wil-lows bent over it. The purple and white asters fringed it. But it glided silently by them as if it had dreams of its own.

Down there was the old ford which had been used before the great bridge was built. Memorial it was of the days when the old pioneers had had to drive such leagues of miles to the nearest railroad station with their produce. Hard days those, requiring

produce. Hard days those, requiring labor and patiences and courage and graven into the pioneer heart with cruel-edged tools. Hard days, and yet more fondly cherished than all.

Struggle and victory and the prize—the old homestead! How its memories swept upon the old woman's spirit this day. How rich and full had been her life here. How she was bound to it. Its every leaf and twig, its every inch of soil, every glimmer of sun that had struck across it had twined its separate tendril about her life. Small wonder the stranger's talk life. Small wonder the stranger's talk had seemed slander on an old friend.

Still dreaming she went up the path to the house and sat down on the worr doorstone. She did not need to look behind her to know that the soul of the old homestead was there, breathing from every room, stealing from every corner. No love, no joy, no sorrow, but it had garnered up and kept and sweetened. The high cellings how they echoed. The floors and walls, how they gave out whitepers—little pattering feet along the halls, soft prayers at twillight, more boisterous sounds of play, trifling quarrels to make ensuing hours sweeter still. the old homestead was Work and weariness, rest and plea sure-all, all there.

sure—all, all there.

Little figures starting out of its shadows and melting and giving place to taller ones. Bells ringing, wedding bells, and inevitable goings—until at last here was the solitariness of age.

Now she heard somebody down by

the road and her husband was answe ing the little land agent's half-playful questions. "No, sir. Count me out I've lived here on this old farm for thirty years, and I'm part and parcel to it. Good day, sir."

He came up the path with soldier step. His hat was off, his head

thrown back, his eyes were very blue. His wife went down the path to meet

Father: Well, here's my last dol-lar. Money has wings and house rents make it fly. Son: Yes, some houses have wings,

for I've seen many a house fly.

Father: You're smarter than your dad, maybe, my son, but I always thought that no part of a house except a chimney flue.









Horses Need

some tonic, when barned up in winter, to supply the deficiency of exercise and green food.

MADE IN CANADA

is a mixture of roots, herbs, barks and seeds. It tones up the system of a horse and gives him new life, and a glossy coat of hair. Makes them strong and healthy. It is the best thing you can give a horse for indigestion, liver trouble, cougha, hufluenza, hide bound or blood trouble, and it brings a horse through the winter in top-nioth condition for spring work.

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Stronger than leather-half the cost. GRIFFITH'S

Take no chances on a halter. Once a colt a halter of the carne a colt a halter he fearns a get greater strength than Griffith's Giant Halter under 12.00. Halter to hold better. Em: sine Griffith's Giant at your dealer's and The hadrer a horse pulls the tighter he is held, you ca see that And you can see the discheduler or russet beilting leather—and ½ inch hard tested rope.

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Be sure and state which breed you prefer.

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Orchard and Graden Notes

TRAIGHT garden or orchard rows give a better appearance and are easier to cultivate.

These long evenings are good times to plan next year's garden and to study better methods. Hoe all grass and weeds away from the trunks of trees. This will destroy the trunks of trees. This a winter home for mice.

Prune grape vines as soon as the aves drop. They should be laid leaves drop. down before the ground freezes.

Potatoes should be stored in a cool

cellar. A temperature of about 35 is good. If they are kept warm enough to sprout badly, a loss of from 10 to 30 bushels per acre in yielding power may result

may result.

Store cabbages in a cool cellar, heads down. They should be hung from supports, or the roots may be cut off and the heads wrapped in newspaper and laid on a shelf, but they should be hung heads down for a while to ensure draining the water

Mulching Strawberries

THE object of mulching strawber-ries in the fall is to prevent winter-killing.
Winter-killing is usually caused by

the plants dying out too much during the winter months, or by alternate freezing and thawing.

The best mulch material to use is clean straw; this is placed on the plants four to six inches deep after e ground has been frozen. In the spring after the ground is

thawed, the straw is worked around the plants. This serves several purposes, such as keeping the patch free weeds, conserving the moisture and forming a clean mat for the berries to ripen on.

After the fruit has ripened, the straw should be removed.

Tent Caterpillars

By F. L. Washburn.

ENT caterpillars come from an eggs laid by a brownish moth, of medium size The eggs are are laid in July, being deposited in bands around the smaller twigs of apple, wild cherry. and other trees. They hatch the foland other trees. They haton the fol-lowing spring, and the caterpillars be-gin feeding upon the young leaves. When full-grown, the caterpillars

When full-grown, the caterpillars are about two inches long, somewhat hairy, and one form has a longitudinal while stripe in the centre of the back. At this time they leave the tree and wander of singly, to seek sheltered places where they spin their cocoons. Three weeks later, the moths emerge and lay their eggs.

Remedies

grower is spraying his fruit trees faithfully with arsenate of lead trees farthruly with arsenate of least in any shape, this, of itself, will pre-vent injury from tent caterpillars, since any internal poison is fatal to them; or, the tents may be crushed with the gleved hand, when they can with the gloved hand, when they can be reached or, they can be burned by a tarch on the end of a pole; or, they can be twisted out of their place by means of a wire brush made for the purpose, attached to the end of a long pole. These remedies are ef-fectual only when the caterpillars are in their tents early in the morning, or in wet weather. Even on trees which are not ordinary sprayed, a sincie averaging of areanse of lead. single spraying of arsenate of lead, returns.

when caterpillars are observed, would

when caterpillars are conserved, wound probably stop their depredations. In the case of the forest tent cater-pillar the larvae can je destroved when they collect in bunches on the trunks of trees. Prune off and de-stroy the twigs holding, the eggs.

Anthracnose forms grayish sunken spots with purplish borders on the canes, and sin ilar spots on the leaves. It sometimes ruins entire plantations.



When Marketing

FOUNG geese are ready for market when the tips of their wings reach the tail, which is when they are about 10 weeks of age

It is claimed that it is much easier to dress a gosling in warm than in cold weather, as the feathers do act

set so tight, and in picking them the flesh is not go apt to be torn. When scalding poultry for market, it is best to first dry-pick the legs, so that they will not necessarily be plac-ed in the water and change' color. Neither the heads nor the feet should touch the water. The water ought to be as near boiling point as possible, without boiling.

'plump" a dressed fowl The way to is to dip it for 10 seconds in water nearly or quite boiling hot, and then immediately in cold water. Hang in cool place until the animal heat is Plumping gives the entirely out. fowl a much more attractive appear-

When the fattening season arrives, according to an experienced goose raiser, keep the fowls shut away from bathing water, and feed barleymeal, cornmeal, and beef scraps and some chopped celery. Keep them in a sub-dued light for three or four weeks when they can be let out for a couple of days to enjoy the use of a pond. Then return to clean quarters, and feed on harleymeal, and milk, and chopped celery for two or three days, letting them go 24 hours before kill-

More Eggs? Act Now

HERE isn't a dairyman raising pure-breds but will acknowledge the value of a well bred — well bodied sire. We have proven it by results that the breeder who consistently from season to season gives every care to the selection of his herd leader, will find he can send more milk to the factory—as much as 2,000, 3,000 or even 5,000 lbs. per cow; more cream to the city, and more cash into his cyn pocket. His surplus stock will bring a bigger cheque. But the supreme satisfaction is in the pride every true breeder must feel in proevery true preceder must reel in pro-ducing a higher type of herd — in setting for himself a new standard in yearly milk production, in fat con-tent, and in a more perfect utility animal in every way.

But why not apply the same prin cipal of breeding and selection to our other farm stock? We lag behind in these. The law works identically the same-and the improvement in many cases is even more striking in cash returns. Take poultry for instance.

The average Ontario hen doesn't lay 100 eggs in a year. On the other hand, Prof. Graham points out that 200 should be the standard. standard is not attained by a single flock in Ontario. How near does yours come to it?

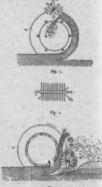
In poultry, experts state the light or heavy egg-producing tendency rests with the male. The matter of rapidly improving a flock thus resolves itself into selecting vigorous male birds of a good strein for the breeding hens

If each how in a flock of 30 laid but

Heach hy, in a nock or 30 laid but three eggs more per year, the margin would pay for a choice cockerel. Now is a good time to put a new bird of proved breeding with your flock. Get him acquainted before the laying season. Don't delay doing this this fall. No matter what breed these you can readily served. this this fall. No masser this this this fall. No masser you keep, you can readily secure males at this season—and with greatmales at this season—and with greatmales at this season—and with greatmales at the flocks. In Farm and Dairy during the coming weeks, you'll find the names of many reliable poultry breeders. Secure a good cockerel of new blood and improve your flock just as you improve your dairy herds. Now is the time to start.

A Plow and More

HE main features of this ma-chine, patented in Germany un-der No. 276086, are a number of der No. 2000s, are a number sharp disks, mounted near each other on the same shaft, which cut into the soil by the weight of the whole machine and lift by friction a slice of arth which is then broken up by a series of knives mounted on a second shaft which may be situated over or



A New Disk Plow.

behind the disks. In order to prevent the rapidly revolving knives being injured by stones or the like they are not rigidly attached to the shaft, but are mounted in such a way as to allow relative motion between them.

Besides, they may be arranged in such a way to the lifted slice that only the outside of the latter is broken up and thrown backwards. while the inner portion is scraped off and allowed to fall on the revolving knives which break it up and throw it into the bottom of the furrow. Figs. I and 3 are cross sections of the working parts of the machine and fig. 2 is an elevation of the knives mounted

is an elevation of the gnives mounted on a shaft A and kept at the proper distances from each other by rings S. A nut A' presses them all tightly together, but it allows some freedom to each blade when the resistance ex-ceeds a certain limit. In fig. 1 the to each blade when the resistance ex-ceeds a certain limit. In fig. 1 the blades are placed over the disks and in fig. 3 they are situated behind; with this arrangement the soil is completely turned over. November 11,

The Now Home of

YEAR ago las A ment, one of known Ayrshire from his old farm new one near Br farm had grown too panding business; needed, and Mr. D splendid Ayrshire h und on a farm of fully situated just a the city of Brantford

On the occasion of Farm and Dairy found an Ayrshire h the 153 acres. Twenting, and the milk sh gienie Dairy in Br figures will indicate ability of this herd. averaged 11,000 .bs. of milk a year, and



The New 8. Dyment, well know breeders of Canada, i Ont. This illustration the la

milk a day. This farm -

specialist in ap a were not particularl dairy farming. Mr. has remodelled the s with steel equipment newest additions is a two inches by 30 fe other sile on the far

The illustration is give Mr. Dyment's f the home which grace The big house of col-rounded by grounds park-like in appeara

Some Breeder C

Some Breeder C.

Farm and Dairy I

sletter from one
whose husband ha

front. First and the

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fig. 2

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YEAR ago last spring, N. Dy-ment, one of Canada's best A ment, one of Canada's best known Ayrahire breeders, moved from his old farm near Hamilton to a new one near Brautford. The old farm had grown too small for an ex-panding business; more rocur was needed, and Mr. Dyment and his splendid Ayrshire herd may now be found on a farm of 1.53 acres, beauti-fully situated just a short drive from the city of Brautford. new one near Brantford. the city of Brantford.

On the occasion of a recent visit by a Farm and Dairy representative, we found an Ayrahire herd of 40 head on found an Ayrshire herd of 40 head on the 153 acres. Twenty cows were milk-ing, and the milk shipped to the Hy-gionic Dairy in Brantford. A few figures will indiexte the producing shility of this herd. Five helfers have averaged 11,000 ds. of milk in a year; mature cows average yearly 12,000 lbs. of milk a year, and at the time of our

The New Home of an Old Herd herd and the potentialities of a model

"Made on Paper" Farmers

USED to take one of those high-

brow farm magazines that come weekly all dolled out like a story. weekly all dolled our like a story, book, says Bob Coville in "Indecen-dent Farmer." It was mainly devoted to coaxing the city man "back to teb soil." Every number would contain the exploits of some chap who had made good while the "native" (mean-ing the simple my who had always ing the simple guy who had always farmed for a living) sat on the fence and made fun of him. Let us take the example of John Jones. John was a bookkeeper in the city, drawing a bookkeeper in the city, drawing about eighteen bones, week when the boss canned him. John has always hud a yearning for the solitudes, so he takes \$1,500 that Uncle Jim had left him and goes away and buys a "view." The "view" is cn



The New Home of a Veteran Breeder of Ayrshires.

S. Dyment, well known many of Our Folks as one of the veteran Ayrahire breeders of Canada, is wilving on a beautiful old homestead near Brantford. Ont. This illustration of the home also gives an idea of the park-like character of the lawns—Photo by an editor of Farm and Onity.

milk a day.

This farm we inally owned by a specialist in an and the buildings were not particularly well suited to dairy farming. Mr. Dyment, however, has remodelled the stables, fitting them with steel equipment, and one of the newest additions is a stave silo 14 feet two inches by 30 feet. There is an-other silo on the farm 10 x 24 feet, and both of them will be filled this

illustration in this issue will The illustration in this issue will give Mr. Dyment's friends an idea of the home which graces his new farm. The big house of colonial type is surrounded by grounds that are almost park-like in appearance. N. Dyment and Sons have a model home, a model

Some Breeder Can Do His Bit

Some Breeder Can Do His Bit
Farm and Dairy has just received
a letter from one of its readers,
whose husband has gone to the
comment of the second of the second of the second of the
comment of the second of the second of the
comment of the second of the
farm and Dairy have known what
it is to have a dobt coming due, and
not the wherewith-fill to meet it.
farm and Dairy have known what
it is to have a dobt coming due, and
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farm and Dairy have known what
it is to have a dobt coming due, and
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farm and Dairy have known what
the minaged with serial for copiethe therefore is unable to receive
the usual Canadian allowance. To
her herd, She is asking
farm and Dairy to find her a buyer
for a well-frown, registered helier
for an of her herd.
She is asking
the herd of late, Wallace of Simon.
Who among our Roletein breeders
who among our Roletein breeders
helping hand by buying it at an
houst price? The duty falls upon
of looking after the interests of
home breeder will be doing his bit
helping Rand R. Alleen Adams. Her
address is R. R. No. 2, Burford, Out.

cow was giving 70 lbs. of one of those old abandoned farms.
but he would never have bought the farm if it hadn't been for the view. Of course it has one of those old colonial mansions on it too. Sometion. One to rack, but still a mantion. One to rack, the still a mantion. One to rack, the still a mantion. One to rack, but still a what gone to rack, but still a man the legislature.

This is all very nice, and we wish we might go and do likewise, but somehow the yarn don't ring true to a man with a big water blister on each heel, who has been chasing a cultivator all day.

Horse Efficiency

(Continued from page 5) but the latter offers by far the great-

est opportunity.

can you revise your cropping system so that fewer work horses will be needed, or so that the work will be more equally distributed and thus make it possible to employ them more hours each year?

Can you raise colts and thus reduce the cost of keeping your horses? Can you arrange to use your work horses for outside work when not busy on the farm?

Can you reduce the cost of keeping each horse by feeding less feed or cheaper feed and still give a proper

Farm work done with fewer horses means a saving of \$100 a year for each horse not needed.

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

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Remember, in summer your hens eat meat in the form of grubs and insects. You must supply them, then, with meat in winter

because meat con-

tains the protein'

that the hens need

to produce eggs. Over one-third of the solids in an egg consists of protein. Certainly the small amount of protein in grains is not enough.

You must give your bens grit, gree foods, clean water, you must mix foods, clean water, you must mix your grain foods, you rust balance your rations with Beef Scrap. That is, you must, if you want winter oggs

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overtuse Dairy."

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The Rural Publishing Company, Limited PETERBORO, ONT.

"Read not to contradict and to confute, nor to elieve and take for granted, but to weigh and conbelieve and take

Beware!

ONE effect that we anticipate from the prosperity tales which city newspapers are telling about farm conditions nowadays is an emigration from city to country of considerable numbers of the slick-tongued fraternity, whose business it is to sell stocks of a speculative character, the kind that promise enormous profits and are equally worthless. These smooth masters of the art of salesmanship will prebably be offering many of Our Folks an opportunity 19 get rich quick if they will only invest some of their hard-earned savings in the propositions of these salesmen. Perhaps the solicitation will appear in the form of a well-written circular accompani personal (?) letter.

These talkers are just as reliable now as they have been in the past, and our United States contemporary, Farm, Stock and Home, gives the testimony of a subscriber as to just how reliable that is. This subscriber, by hard work and economy, had accumulated a modest bank account. During the past five years, the investment of these savings has been solicited by twenty-nine different concerns. Probably as a matter of curiosity this farmer filed away the circular letters and booklets of the various concerns and on September first of this year put down in figures what a \$100 investment in each could be sold for at that date. Four of the twenty-nine concerns he found were bankrupt. Three were absolute fakes. One of them was put out of business by government authorities, two have been reorganized and one paid one yearly dividend. The market price of their stock ranged from six to forty-eight dollars a share. No quotations could be obtained as to the value of other concerns, a sure indication that they are now worthless. Had this man taken a

\$100 share in each of the twenty-nine concerns, an investment of \$2,900, he would in the five years have received six dollars in dividends and been able to sell his holdings at the present time for \$142. "No doubt," says Farm, Stock and Home, "these concerns were represented by skilled talkers with bountiful promises, like the great number now being urged on farmers and others."

The Danger of Paternalism

N discussing government loans to farmers, David F. Houston, of the United States Department of Agriculture, recently stated his own belief as follows: "There seems to be no emergency which requires or justifies government assistance to the farmers directly through the use of the government's cash or the government's credit."

There is a lot of good, sound commonsense in True, the this declaration by Mr. Houston. statement was made in the United States, for United States farmers and referring to United States conditions, but it has its application in Canada as well. We note a growing tendency in certain sections to turn to the government for leadership and assistance in all movements of a community nature, such as the formation of credit societies, marketing associations, live stock improvement associations, and so forth. We all know that the more a child has done for him, the less self-reliant does he become. Applying the same truth to a broader field, we may say that the more a people have done for them, the less self-reliant will they become. All that Canadian farmers can reasonably expect of the government in connection with cooperative eadeavor is that they clear away the legislative difficulties that lay in the way of the formation of cooperative societies. This, the government has not so far seen fit to do. There is no suitable cooperative legislation on the statute backs of the Dominion of Canada. Why? Perhaps the opposition of the Retail Merchants' Association explains the tardiness of governments in framing legislation that would make cooperation easy and lessen the dangers of paternalism by substituting self help.

"Fad" Farming

THERE isn't a fortune in farming, but there is a good, comfortable, independent living. Many of us, however, are not content with the small emoluments of our occupation and are ever on the look-out for some side line that holds out a promise of inordinate gains. And when this desire for easy and quick riches becomes strong enough, we are right in line to lose our sanity and adopt some fad that yields the returns promised only to the promoters and leaves the rest of us with a new supply of dearly bought ex-

A few years ago we were told that the breeding of Belgian hares afforded a sure and easy way to riches via the farm. No sooner had the Belgian hare fad petered out than ginseng came to the front. Squab farming and frog farming also had their day and more recently fur farming has been quite the rage in some parts of Canada. The former fads are now recognized as Fur farming is new enough that many still claim immense profits, but its foundation is not stable and only a small percentage of the fur farms so far established have paid dividends or give any promise of paying dividends. More money has been lost than made in all of these fads; except of course by those who got in on the ground floor.

Are we then to avoid all side lines? Not at all. For the most of us, a couple of hundred chickens, an acre of strawberries, or a small or-

chard, will prove more profitable than any of the widely advertised "fads." This has been proven many times, yet we know that the next farm "fad" will draw the usual crowd of suckers. We forget so easily.

The Neglected Farm

"T T was once the show place of the neighborhood," we were told. Not so now. A feeling of unutterable sadness came over us as we drew up to look at the old place. Many pickets were missing in what had once been a trim roadway fence. The lawn behind had grown rankly to grass and weeds. The hedges and shrubs were untrimmed. The veranda with its sagging roof, was no more dilapidated than the rest of the house. The outbuildings still stood as strong and square as when they had been built, but the lack of paint and loose or missing boards, testi-fied to neglect there also. The yards were litter. ed with rubbish, the crops weedy and unthrifty."

This farm may have fallen into neglect through no fault of its owner; sickness and misfortunes account for the present ragged appearance of many fine old homes. In cases without number, however, beautiful farms have lost their desirability just because of a growing carelessness that has fastened itself on their owners, the habit of putting off till to-morrow anything that does not have to be done to-day. That fine farm homes should be allowed to fall into disrepair through neglect is bad in any case. It is deplorable when a decaying home houses a growing family. The environment is certain to give the children a distaste for farm life, and at the same time, it is apt to breed in them the same careless habits that inevitably lead to failure in any other line of work that they may choose to follow. We owe it to our farms, our families and our communities to remember that appearances count.

Distribution of Land Values

MISUNDERSTANDING of the principles of the Single Tax explains a great deal of the opposition to its practical application. Just recently, for instance, one of Our Folks took us seriously to task for advocating the taxation of land values through Farm and Dairy. He said in effect: "How can you pose as a friend of the farmer and advocate such a system? Do you wish to ruin us? You must know that farmers own almost all the land, and under this system you advocate, they would have to pay almost all

That our friend was sincere, we have no reason to doubt, but he had fallen into the common error of failing to distinguish between land area and land values. Some figures recently collect ed by S. H. Howes, a Massachusetts farmer, illustrate this point to a nicety. Mr. Howes, who is also the assessor for his district, found that the thirty-three cities of the state of Massachusetts occupy about seven per cent, of its area, but have eighty-two per cent, of its land values. If Massachusetts were to adopt the Single Tax, eighty-two per cent. of the taxes for state and national purposes would be raised from the cities, while farmers, occupying ninety-three per cent of the state's area, would pay but eighteen per

cent. of the taxes. We admit that the proportion of land value held in the cities in Massachusetts is unusually high. In varying degrees, however, the same is true everywhere. Under our present system of taxation, the wealth of the country is piled w in our cities, but the cities do not contribut anything like their proper share when taxes an apportioned. The Single Tax would justly distribute this burden between city and country by the taxation of land values and not land areas.

Studies in (

A General Discus Dr. W. L. William

BREEDERS and dair help in a variety of ask most frequently prevent abortion in an a pregnant, with the to (That is, they ask for check an outbreak of ready prevailing, and abundant infection in cavity). According to is impossible, because, know amount can be caused area where the abort which is doing the har

We hold, however, may be largely avoided the infection from ente us before impregnation mation of the seal. I has been served by a the uterus becomes se cavity is yet clean, w



The Pick of a La Woodlawn Count Canary at Toronto. I

have fortified the belie practice, that the calf retained afterbirth. cavity is infected whe served, sterility may re tion, premature birth afterbirth occur, and n ment will materially

Useless Rem Under the belief tha may be caused to en uterine cavity and dest multiplying there, or other theories, numero been alleged to preve

animais already pregn Carbolic acid, given ly or by the mouth, ha to prevent abortion. It d for fifty years, an it has not come into good evidence of its in No convincing eviden terial value has been there appears to us n for believing that it co any valuable result. More recently methy

been highly recommen tion bacterins or vacci recommended, but all ently fallen into con use after an extremely In our experiments with an excessively high abo higher than when w We have watched their herds, and have faile evidence of their value

It is frequently adv applied. As already s ext

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Studies in Contagious Abortion-No. 2

A General Discussion of Methods of Controlling the Disease Dr. W. L. Williams, Professor of Surgery, Cornell University, N.Y.

me inection into entering the query us before impregnation and the for-mation of the seal. If a clean cow has been served by a clean bull, and the uterus becomes sealed while its cavity is yet clean, we believe, and

BREDERS and dairymen request sider the organism which causes the help in a variety of ways. They ask most frequently for means to prevent abortion in an animal already pregnant, with the uterus sealed. (That is, they ask for means to check an outbreak of abortion already prevailing, and perhaps with abundant infection ir. the uterine cavity). According to our view, this is impossible, because, so far as we know, no disinfectants in sufficient amount can be caused to enter the area where the abortion organism, which is doing the harm, is located.

We hold, however, that abortion may be largely avoided by preventing the infection from entering the uterus use for the many complete in the control of the prevention of the prevention of the organism of abortion is fundamentally more danger. sider the organism which causes the disease to be essentially universal, the second of low virulent in small volume or of low virulent in small volume of the same infection in a herd to remove the aborters and leave in the stable those which have, because of the same infection in the uterus, equal or greater in intensity or volume suffered from premature birth, from retained afterbirth, from retained afterbirth, as a cow showing sterility, abortion, premature birth, or retained afterbirth as a result of the presence in the uterus of the organism of abortion is fundamentally more danger-ous in a suble than a cow having the ous in a stable than a cow having the same organism but not suffering in any of the ways mertioned. We accordingly cannot consider the iso-



The Pick of a Large Class at the Canadian National Exhibition Woodlawn Count Canary, here illustrated, was the pick of the senior yearling bulls at Toronto. He was exhibited by A. E. Hulet, Oxford Co., Ont.

have fortified the belief by extended practice, that the calf will be carried to full term and there will not be retained afterbirth. If the uterine cavity is infected when the cow is served, sterility may result: or abor-tion, premature birth, or retained afterbirth occur, and no known treat-ment will materially affect the re-

Useless Remedies

Under the belief that disinfectants may be caused to enter the sealed uterine cavity and destroy the bacilli multiplying there, or under various

multiplying taete, or under various other theories, numerous drugs have been alleged to prevent abortion in animals already pregnant.

Carbolic acid, given hypodermically or by the mouth, has been alleged to prevent abortion. It has been thus used for fifty years, and the fact that it has not come into general use is good evidence of its inability to cure. No convincing evidence of its manual convincing evidence of its evidence

No convincing evidence of its material value has been recorded, and there appears to us no good reason for believing that it could accomplish any valuable result. More recently methylene blue has been highly recommended, and abortion bacterian or vaccines have been recommended, but all have apparently fallen into comparative disable after an extremely brief period. Its after an extremely brief period.

lation of aborters as an efficient or valuable remedy in the control of the disease. This is not advising against the isolation of aborters. If a cow has aborted or has retained placenta accompanied or followed by discharges from the vulva, she should not be allowed in a dairy stable supposed to be conducted with decency. But this does not apply to abortion

At the present we have no remedy to recommend to breeders and dairy-men for preventing abortion in cattle already pregnant. We know of no means by which we can complete-ly or permanently eliminate from a herd the infection or the organism of abortion. In non-pregnant heifers and cows, by a comprehensive plan of disinfection, or what we may term sexual hygiene, we can very greatly and quite satisfactorily reduce the amount of abortion, premature birth, retained afterbirth, and sterility.

Fundamentally, our plan involves a basic change in the attitude of breeders and dairymen. Each herd and each animal in the herd must be regarded as having in its system somewhere the organism of abortion or being in imminent danger of be coming contaminated, and permanent general preventive measures must be applied as a rule of daily practice use after an extremely brief period, applied as a rule of daily practice. In our experiments with these, we had no accessively high abortion rate, far fairly and fully tested in large herds, higher than when we deliberately and has extended over several years. It is in harmony with our present herds, and have failed to see any evidence of their value.

It is frequently advised that, in finding the control of abortion, and the other herds and the control of abortion, isolation be the control of abortion, isolation be we realize that most breeders or applied. As already stated, we conNo tinkering worry or bother with the Alpha. It plugs right along like a steady and well broken horse.



Anybody ean run an Alpha Gas En-gine. Your wife can run it: your boy can run it: the hired man can

There is nothing mysterious or com-plicated about an Alpha. That's why it's an ideal engine for farm

Not only does the Alpha work well but it wears well, because it is made from the very best material

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Just give it a supply of gasoline or kerosene, oil it up and give it a pull and it saws your wood, cuts your fodder, grinds your corn, pumps your water, runs your cream separator or your washing machine, or does anything else that you want it to do. It's certainly a great labor saver on the

Eleven sizes, 2 to 28 horse-power. Each furnished in stationary, semiportable, or portable style, and with either hopper or tank cooled cylinder.

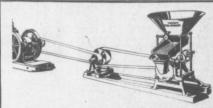
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WHAT better recommendation than this could a feed grinder have-"It grinds flax, barley, corn, crushed ear corn, oats, wheat, rye, peas, buck-wheat, screenings of any kind of mixed grain or any other feed stuff, fine or coarse as desired, and removes foreign

other reed stuir, noe or coarse as desired, and removes foreign ambatances.

Both and a life ed stuir"—because of its excellent grinding that a so well known are the original Vessot plates, and so highly regarded by all who know them, that imitations are appearing. To insure our customers getting genuine plates, we have arranged to have the trade-mark, "S. V.", placed on every genuine Vessot plates so plainly that you cannot go wrong. Look for the "S. V.".

Vessot grinding plates do their work so uniformly well that clean, satisfactory job is assured. The two-sieve spout removes all foreign matter, from nails and stones to dust and sand. One caution only—use steady, reliable power to drive a Vessot grinder, such power as is timished by an International Harvester.

Buy a Vessot feed grinder in the size best satisted to your work and a Mogul or Titan oil engine to run it.

See the 1 H C local dealer, or write to the nearest branch house for full information.







F you try to paint an ideal and the picture falls short, does that make your ideal less? - Mark Lee Luther.

All Black Betty's Doings

By Elsa Crumrine. The Colonel laughed orimly.

HERE was a clatter of hoofs on the driveway, and Mrs. Lines hastened to the window and

looked out.
Her husband was just dismounting

from his big bay horse, while a stable-man was leading a beautiful block mare around the house. Soon afterwards Col. Lines came in-

to the sunny parlor, his face wreathed in smiles

Well, my dear," he said, rubbing hands gleefully, "I've been to his hands gleefully. "I've been to the Kenworth sale."
"And you've bought a horse, Dan

iel?" she asked with curiosity, for the Kenworths and the Lineses had waged a bitter quarrel for many years, and the failing fortunes of the Ken-worths, culminating in this sale of their stables, was a matter of much interest to Col. Lines and his wife.

"Yes, Martha. I've got a saddle horse for Alice—nothing less than Rod Kenworth's mare, Black Betty."

Once upon a time the Lineses and the Kenworths had been close friends and neighbors. It was a matter of boundary lines that brought about the first bitterness between the families, and now the ill-feeling had spread over two generations. The third generation recognized and respected the feud, although it never understood just why it was worth while to make a lifelong fuss over twelve inches of running brook.

On the Kenworth side there was only Rod left—Rod, who had taken mortgaged homestead as his inheritance, while his brothers had chosen negotiable securities and gone to the west to make fortunes for themselves. Rod had tried farming, but the heavily mortgaged acres need ed expensive fertilizers and a thorough rest to bring a yield of paying crops. Then Rod had to give up his stables. He was bound to rejuvenate those family acres, and some day to bring the Kenworth estate up to its old prestige. So the red flag swung above the stone gateway, and Rod saw his favorite horses led away by his richer neighbor.

And Black Betty had to go, too, for five hundred dollars was not to be refused at this critical time. Perhaps Rod experienced an additional bitterness that his mare went into the hands of his traditional enemy, but

he was courtesy itself to the Colonel.

Around at the Lineses' stable Alice
was caressing Black Betty's pretty head

head.
"It was dear of you, Uncle Daniel,
to buy her for me," cried the girl.
"You and Aunt Martha have been
lovely in every way since I came to
live with you. Why, I've only been
here two weeks and you have showeret blessines of namy description. ed blessings of every description uped the scene with amazement. "I am sorry," said the man cour-"I hope that Black Betty hasn't

frightened you."
"Not at all," protested Alice. Then she added: "You have seen her be-

fore?" "I raised her," he said, briefly. His arm slipped around Black Betty's neck, and the animal playfully nib-

bed his ear.
"Oh! How you must have hated to part with her!" Alice flashed a look of sympathy at the young man.
"She mustn't play this trick upon

haps you were riding in the bridle

"Yes-and she bolted at once. Rod led the mare to an inner gate, stroked her glossy flank and with a grave inclination of his head watched girl riding down the avenue.

When Alice reached home she went at once to Aunt Martha's room, where she related the story of her ride. The good woman's look of outraged propriety stimulated the girl's curiosity and she asked questions until Aunt Martha told her the story of the chance to entertain a niece whom they have never seen before—why, Lines-Kenworth feud. there's a mighty likely prospect that "I am sorry for the unfortunate neighbor who had to part with Black

"All that fuss over twelve inches of ornout meadow land?" echoed Alice. Why, how absurd!"

Aunt Martha flushed. "My dear, you do not understand," she protest-"It is the principle of the thing

Rod was manifestly glad to see them, but he realized that these involuntary meetings must be embar-rassing to Black Betty's new owner. is significant that this time And it Alice did not mention her meeting with Rod Kenworth, nor the many meetings subsequent which Were brought about by Black Betty's perverseness.

One day Col. Lines and his wife were driving toward Pendleton. The way led through the tall beech woods and the horses idled along the plea-sant road. Suddenly, along a side bridle path came Alice on Black Betty bridle path came Alice on Black Berry and beside her Rod Kerworth on his bony sorrel. Rod's hand was on Black Betty's fluffy mane and his handsome face was turned toward Alice's downcast eves.

It was the identical spot on which the Colonel had asked his wife to marry him, and it may have been that softening recollection that prevented an indignant explosion on the part of the old couple.

Alice saw them first and her face went pale and then rosy red. Rost turned and recognized his family foes. With uncovered head, he rode straight

up to the enemy. "It is all my fault," he declared

"No-no-it is mine, Uncle Daniel," protested Alice. "I wouldn't-no, I couldn't recognize the family feud!"

Colonel Lines coughed in an embar-rassing manner and turned his head away. As a matter of fact, he was rather weary of the quarrel which be had inherited from his father.

And the young people-they loved other-that was plain enough and Martha was whispering in his ear the story of how Black Betty had carried Alice to Kenworth Farm. "I hope you won't blame Alice," Rod was saying.

The Colonel smiled. "Black Betty is the one to blame!" he decided, and then, as he whipped up the horses, he called over his shoulder: "Alice you better take Rod up to the house Martha and I will be home by-and-by, and Emmeline is going to make waffles for supper!"



Let Us Give Thanks to the Giver of All Good Things. arvest home Thanksgiving service was at one time more generally observed in churches than it is now. It is unfortunate that the good old custom is falling lisuse. It is still observed in this little church in Durham Co., Ont., as the illustration abundantly testifies.

when a warning gesture from Col. Lines silenced him "Who is Master Rod?" asked Alice,

When a lonely old couple have a

"Poor Master Rod am cut up," be-

gan Henry, the stableman, eagerly,

Betty," she said.

interested in all her neighbors in this new home. But her uncle evaded the forgot everything except Black Betty

The next morning Alice went for her first ride on the mare. The girl was a skillful horsewoman and Black Betty responded perfectly to her lightest touch. Quite unaware that she was turning toward Kenworth Farm, Alice took a narrow bridle path in the beech woods and gave Black Betty a loose rein.

Suddenly the mare stopped short, and whinnied. Then, with a shrill cry, she sprang forward and tore along the bridle path toward her old

Vainly Alice tried to restrain the excited animal. Black Betty put her head down and shot like an arrow to its mark. At the end of the bridle path was a barred gate. At the gate Black Betty rose like a bird and ed over the barrier almost riding down a broad-shouldered young man in the garb of a farm hand. "Whoa, Betty! Whoa, girl!" he

Alice, pale but composed, with her fair hair flying in the breeze, regard-

that counts, not the land. that twelve inches is not land at all, but water. It really is that little brook that runs along the dividing line fence."

But why not settle it in a legal-" "My dear child, there have been several law suits over the brook, and the last one gave it to us. Rod Kenworth can't afford to spend any more money on lawyers' fees, and so the matter is settled for good, I hope.

"What are you going to do with the brook?" asked Alice, feeling strangely sorry for Rod Kenworth. Rod Kenworth "Why - nothing.

vanted it to irrigate his meadow land, which is arid enough, goodness knows-but right is right, my dear,"

"And so he had to sell his horse,"
mused Alice, as she went to her room. She thought a great deal about Rod Kenworth and his fallen fortunes, but the next day when she mounted Black Betty she turned the sleek head away from Kenworth Farm and rode in the opposite direction. But the roads were strange to Alice, while Black Betty knew them well, so that on her way homeward the mare managed to find a familiar wood road and for the second time bore her protesting mistress into Rod Kenworth's presence.

. . . Standards for the Home By Josephine T. Berry

TOUSEKEEPING must be judged by business standards. It must be managed and equipped to produce the largest possible income in work accomplished, in money saved or earned, and in the atmosphere of a real home. This demands first of all real home. This the use of a gasoline engine on a farm will more than save the work of one man, it is equally true that water under pressure, a lighting system, and power driven laundry and cleaning machinwill save the work of one woma in the house. Or, from another view, such labor-saving equipment will release a water-carrier, or a laundress for the better paid work of dress-making; or, better still, allow time for the real mothering of children.

But there is one small more in tant economic aspect. Over-work tant economic aspect. Over-work takes all the joy out of work, ever of one's own work. It makes life as istence, not real living. It makes mer and women old when they should still be young. It is time to cease praising the industry which begins with the dawn and lasts all day long, an instead, to take account of its toll in non-productive, premature old age Conservation of physical strength and health is conservation of earning power - a genuine production wealth. . . .

"Give thanks for what is, instead of dwelling on what might have been.

********** The Upward

20000000000000000 Travel Thoughts Mormons

60 T WILL shew thee in the scripture Daniel, 21. While in Utah, I vis who lived in a suburb of family were the only they call all those not o among the Mormons,

they had seen much of t in time had become i During my visit and was invited into where I found them me and kind. One day my cousin as ess how her Aunt Betty

death of her husband. was that she was very Temple. We Gentiles n fuse Temple and Tabern former there is an und trance, through which no wout Mormon is allowed enter the sacred preci Temple.

As my cousin looked p her aunt had been search their family records in and had found among th many dukes, lords, and people. Every day she wa fized for them, for as r could stand for in a day Then she added in

tone, that of course they to accept salvation, but did long for it, her aun this for them. All this earnestly that one could the teller had faith in th this act for the saving o had died centuries ago. One is appalled and think of the false teach signing cleverness of the ut extort money by suc

It is only by deep, thou the Scriptures and ear at we can know the trut od wishes us to know it. o many different viewpoir pestions that we must om all possible sides, ge I possible sources, neve es to any light of truth our own hearts comes f

System in the Sewin TOW that fall has set

accompanying short and long evenings, ore time in-doors, and n wes plan to do much of t winter during the ear necessary for the busy stematize her sewing, if to accomplish much in ng moments. Some ving hints which come iversity of Wisconsin erused and digested by re they are

housewife would sa ch annoyance and exha ten her sewing tasks if to sew during those to sew during those will save to apted. She will save to completing each processing out all pieces at a second service with the same to be set to all then stitching. is just the same in th

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************** The Upward Look

fasteners, Travel Thoughts-No. 7 Mormons

Mormons

**WILL shew thee what is noted in the scripture of truth."—

Daniel, 21.

While in Utah, I visited a cousin who lived in a suburb of Ogden. His family were the only Gentlies, as they call all those not of their belief, whereast the Mormons, so naturally on the suburbance of the suburban they call all those not of their belief, among the Mormons, so naturally they had seen much of the latter, and in time had become intimate with them. During my visit, I met them and was invited into their homes, where I found them most courteous sed kind and kind

and kind.

One day my cousin asked the hostess how her Aunt Betty was after the death of her husband. The answer was that she was very busy in the Temple. We Gentiles must not confuse Temple and Tabernacle. In the former there is an underground entrance, through which none but a de-wout Mormon is allowed to pass, to enter the sacred precincts of the Temple.

Temple.

As my cousin looked perplexed, our hostess explained that for some time ber aunt had been searching through their family records in the Temple, and had found among their ancestors many dukes, lords, and illustrious people. Every day she was being baptical that the control of the search people. Every day she was being cap-tized for them, for as many as she could stand for in a day and for as many as she could find people to pay our bank and the could find people to pay in. Then she added in a reverent tone, that of course they did not have to accept salvation, but in case they did long for it, her aunt was doing his for them. All this was said so earnestly that one could see clearly the teller had faith in the efficacy of this act for the saving of those who add died centuries ago.

One is appalled and shocked to think of the false teaching and designing cleverness of their leaders, who not only mislead their followers, who means.

at extort money by such means. It is only by deep, thoughtful study

the Scriptures and earnest prayer hat we can know the truth as we feel od wishes us to know it. There are o many different viewpoints on many uestions that we must study them tom all possible sides, get help from nom all possible sources, never close our ses to any light of truth that we feel a our own hearts comes from Him.—

System in the Sewing Room

OW that fall has set in, with its Ow that fall- has set in, with its accompanying short, cool days and long evenings, we spend get time in-doors, and many housewer plan to do much of their sewing winter during the early fall. It necessary for the busy mother to stematize her sewing, if she is good to accomplish much in her dress-king moments. king moments. Some practical ing hints which come from the iversity of Wisconsin might well perused and digested by all of us. re they are:

housewife would save herself th annoyance and exhaustion and the horizontal tension and the horizontal to see the horizontal tension and tension ch annoyance and exhaustion and

continuous process. Excepting in particular cases, the button-holes should be bought ready made, by the yard—also hooks and eyes and snap fasteners. These can be stitched the yarment underset he denoted the garment under the garment under the garment underset he denoted the garment under the the garment underneath a flap and be concealed.

the garment underneath a flap and be concealed to a number of articles of the same kind and size are to be made, it will save much time to fold the goods so the number required can be cut out of once. Great economy will result of the control of t

In the sewing room, as everywhere else, the housewife needs to make her head save her motions and time. She should accustom herself to using all the modern attachments which come with her machine, as they save much work.

. . . Is Your Cellar Sanitary

ASHING windows, flourishing the broom and dust cloth, F a making general preparations for the coming winter, are quite in order these days. A very important duty, too, and one we fear that many of us are apt to neglect, is that of spanding some time in the cellar making things thoroughly sanitary. Some very practical surgestions from contemporary, "Successful Farming," might be read and put to good must be used to be used to be used.

Where both the walls and floor of the cellar are of concrete, they should be washed thoroughly. If only the walls are of concrete, stone or being dirt, they may be brushed down well with a damp cloth or ald brong or old broom,

It will prove time well spent to take all barrels, bins, and boxes out in the open air, washing and drying them thoroughly before returning them to the cellar.

them to the cellar.

Clean out every particle of rubbish, especially any rotted or decaying fruit or vegetables that may be present. See that the drain leading from the cellar is in prime working order. It right not be needed any more this fall, but next spring, while the ground is partly frozen and the surface of it is a veritable slush to work in, your drain may fall to carry off the moisture if it is not put in shape at this time. at this time.

at this time. Having thoroughly cleaned out the cellar, sprinkle some lime and ashes on the floor, throw open all the windows, doors, and ventilators, leaving them open a day or two. This admits air, sunshine, and with the influence of the lime and ashes, unrifies and freshens the interior. Then, when you begin putting away fruit and vegetables in the cellar, store only those which are fresh, solid and in prime keeping condition, as they will be confined for months, and any conprime keeping condition, as they will be confined for omnths, and any contamination cream in the cellar will not only spread ain the cellar will not only spread ain the cellar will approducts, but some dangerous disease among the members of the farm household. This makes the cleaning and purification of the cell-lar not only a question of economizing in stored products, but one of health and sanitation in the family.

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********* **OUR HOME CLUB** Seessassassassassassassassas

Sympathy (?) Extended to "Bachelor Dick"

POOR "Bachelor Dick!" His tale of woe is surely a pitiable one. It is really too bad, if, as he says, there are a number of young men in his locality like himself who men in his locality like himself who want to get married and an equal number of young ladies who have aspirations along the same line—if conditions are right. I have been wondering if there is not a possibility that these young men who are so anxious to join the ranks of the digre, have taken too much for grantdicts, have taken too much for grant-ed as to the opinions of the young ed as to the opinions of the young ladies on the matter. Would it be safe, Home Club members, to ven-ture the opinion that nossibly not one of these noble (?) bachelors has set his heart on any particular one and "popped the question."

The outstanding feature of "Bachelor Dick's" letter is of course, that girls nowadays want to start in where their mothers and fathers left off. am willing to admit that this is true in many cases, but I believe too that a great many young men are in the They do not want to same direction. start up a home unless they can start s well as their chums, who, as Bachelor Dick" said, have probably inherited the farm on which they

started married life.
Notwithstanding "Bachelor Dick's" emphatic declaration as to what girls desire before being willing to marry, it is my opinion that the majority of girls would have other objections to offer. Here are some of them:

All girls like courteous, intelli-gent and refined young men. (By this I do not mean the city dude, with this I do not mean the city dude, with the glib words and smart appearance). So often though, we men-boys who are careless as to their choice of language when conversing, and are lacking sadly in the little

courtesies which go a long way to-wards commanding the respect and admiration of young ladies. It is my opinion also that most girls have a high ideal as to the stamp of ones, they would choose for a hus-

man they would choose for a hus-band, and until a Prince Charming who measures well standards, they will live in e blessedness. I am not sure their standards, they will the in-single blessedness. I am not sure but that there is a possibility of hav-ing too high an ideal, and someone has said that instead of setking to realize the ideal, we should seek to idealize the real. I don't know that idealize the real. I don't know that this would be a good plan to follow, however, in the husband hunting busi-

"Bachelor Dick" should not forget "Bachelor Dick" should not forget that, after all, the young men have a big advantage over the young ladies, —it is their privilege to make a chois, eand then ask to be accepted as a hus-band, while the girls, no matter how band, while the girls, no matter how many prospective husbands they might select, have to wait until they are asked. Probably by this time, Home Club members will have dubbed me as an "old maid." I haven't reached that stage yet, however, and while I may be wrong in some of my views, it seems to me that if the right kind of a man comes along, all sen sible young women will marry the man, not his money, or his farm. 'Here's Hoping."

A Cheery Chat from "Wildwood"

SUCH a variety of letters and talks we have had all summer in our Club. Is it possible it is nearly five months since I timidly entered this circle? "Aunt Jane" tells me so. Time flies so quickly with us women Every minute is occupied and this year we have had so much extra with Red Cross and patriotic work. And don't we feel like leaving something undone to get time to do something for our gallant

men at the front? What a long, weary way "Per-plexed Sister" has to go until she reaches the level, where she will

have peace and comfort with their hired men. In our 14 years' exper-ience with hired men, we have nevi while the leight. He writes his letten with the leight. He writes his letten peace of the leight. He will be boss's peace with the leight of the leight of the peace of the leight of the leight of the peace with the leight of the leight of the men and ink. He is used from star to finish as one of our very own, con-nenty or no commany. His washing. pany or no company. His washing, mending, ironing is done, and he is made acquainted with our visitors,

and why not?

To do the work properly on our farms to-day, we must have cooperation all round. If the men are rushed, the women must fill in. If the good man is away, every one has a few more cows to milk and so forth. We should always suggestions of the work of the company o and why not? We should always remember too that this old world will move on without, as it has moved since the beginning. We may be missed, but the need and the hour supply the man

also the woman One thing I think we women do no pay enough attention to is our hol Right in our community, miles from a railway, live womeyes, and men, who have never be miles from a railway, live would yes, and men, who have never beg on a train. We work hard year in and year out and holidays never con our minds. We get so deep down a narrow rut, we can't see out, as then we get buried under after it. The small sons and I went to

ronto Exhibition this year and did we see and learn. The smooth A we see and learn. The smooth A shires, shining Jerseys, fat Shi horns, majestic Holsteins, and thorses! Wasn't I taken back the times to see the baby pony, who lot have the shire and the seed and the does and the seed and the to be petted, and the dogs and be Then there was the music, that resus, when we grew tired, the soldi some mothers' boys, steady and boys, steady and e ready to fight or die. the trenches to ar satisfaction, the aeroplane manoeuvres, also We visited the big st Riverdale Park and other places interest. We came home very ti fireworks. but very glad we stole the time the change. You know we got tired of throwing down stooks putting them up again, and so couraged at the dismal rain that needed a tonic, and the crowning of all was our welcome h the old dog met us a half mile home. The boys went to school I felt like Farmer John's wife had returned from a journey Fairyland.

Next month the good man his away to the far north with a box of provisions, a bag of quilt his trusty rifle for a deer hun holiday lasts two weeks, and is a deforward to and planned for ing the rest of the year.

Just now we are in the threshing and corn cutting, and we have the time filling the stom of those big, hungry farmers, in know if they don't eat, they work. Who wouldn't be a fam wife?_"Wildwood."

. . . Germs

WONDER who invented get They're such a measley this Of course, they're "made is any!"

I wish they'd keep them o'er they are the are they are they are the are they are the are they are the are they are the are the

But like as not a bomb they'd Or fill some skulking submaris Or other infernal machine, And dose us with the germs a bomb they'd

> ... What He Wanted

WHILE little Dorothy was ing, her hostess' dor running up and stops er panting. Seeing his fore her panting. Seeing his out, Dorothy said:
"I'se not a doctor, doggie."

the stomach contents, cent. being wild fruits possibly cultivated varie vated fruit amounting

cent. was found in

in June and July, but of

November 11, 10

HE robin in mar country, one of ished of our behroughout the State Great Plains, and is a ther west and south by

ent sub-species. It be

Alaska. Although the

in winter, a few indi in sheltered swamps, vies furnish abundant f

Examinations of show that 42 per cent.

while the remainder is of small fruits and

16 per cent. consists of one-third of which are

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while the rest of the about 11 per cent., is various insects, with

grasshoppers, caterpilla

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Vegetable food forms

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eaten every month ar staple food during ha o less than 65 species entified in the stomac most important were dogwood, three of v riar, two of holly, two canberries, huckleberries, barberries, service l and persimmor th four species of sum s other seeds not stric The depredations of th be confined to the lier fruits, few, if any ng made that it it t aches, pears, grapes, erries. By the time th forests and hedges th wild fruits which t tly finds more to its rry, unfortunately for early that it is almo t accessible at a tin a long-continued diet hworms, and dried be no wonder that at fi

morsels are greedil hile the robin takes ed fruits, it must be being a natural en the whole season to a possibility, and wh ns the robin alread- 1 account with the farr rendered, with the c ce the robin takes wild as cultivate as unwise to destroy is so little. Nor is this with care both birds be preserved. Where



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The Robin

HE robin in many parts of the country, one of the most cherished of our birds, is found throughout the States east of the forest Plains, and is represented far-ther west and south by slightly differ-ent sub-species. It breeds far north ent sub-species. It breeds far north through Canada, and is found even in Alaska. Although the great bulk of the species leaves the Northern States in winter, a few individuals remain in sheltered swamps, where wild ber-ries furnish abundant food. Examinations of 1,295 stomachs show that 42 per cent. of its food is animal matter, principally inseeds, while the remainder is made up large-by of small fruits and berries. Over

while the remainder is made up large-ly of small fruits and berries. Over 16 per cent, consists of beetles, about one-third of which are useful ground beetles, taken mostly in spring and fall when other insects are scarce. Grasshoppers make up about five per cent. of the whole food, but in Aug-ust they comprise 17 per cent. Caterpillars form about nine per cent, while the rest of the animal food, about 11 per cent., is made up of various insects, with a few spiders, snails, and angleworms. All the grasshoppers, caterpillars, and bugs, with a large portion of the beetles, are with a large portion of the poeties, are injurious, and it is safe to say that actions insects comprise more than one-third of the robin's food. Vegetable food forms 58 per cent. of

the stomach contents, over 42 per cent, being wild fruits and only a little more than eight per cent. being possibly cultivated varieties. Cultivated fruit amounting to about 25



per cent was found in the stomachs in June and July, but only a trifle in August. Wild fruit, on the contrary, is eaten every month and constitues a staple food during half the year. o less than 65 species of fruit were entified in the stomachs; of these most important were four species of dogwood, three of wild cherries, hee of wild graues, four of green-niar, two of holly, two of elder; and maberries, huckleberries, blueber-es, barberries, service berries, hackaries, and persimmons; together ith four species of sumac and vari-as other seeds not strictly fruit.

The depredations of the robin seem he confined to the smaller and riler fruits, few, if any, complaints aing made that it eats apples, aches, pears, grapes, or even late erries. By the time these are ripe forests and hedges are teeming th wild fruits which the bird evitly finds more to its taste. The try, unfortunately for man, ripens early that it is almost the only t accessible at a time when the long-continued diet of insects, worms, and dried berries, and it no wonder that at first the rich ry morsels are greedily eaten.

ile the robin takes some d fruits, it must be remembered being a natural enemy of the t world, it has been working durthe whole season to make that the whole season to make that a possibility, and when the fruit as the robin alread-has a standard account with the farmer for serventeed, with the credits up to time entirely on his side. The robin takes 10 times as the way of the robin takes 10 times as the standard fruit, it is a sunvise to sufficient the possibility of the robin takes as the standard fruit. The robin takes the robin takes are the robin takes as the sunvise of sufficient the robin takes as the r

with care both birds and fruit be preserved. Where much fruit

is grown it is no great loss to give up one tree to the birds, and in some up one tree to the birds, and in some cases the crop can be notected by scarecrows. Where wild fruit is not abundant, a few fruit bearing shrubs and vines judiciously plans from the serve for ornament and provide food for the birds. The Russian mulbery the property of t for the birds. The Kubshin hulberry is a vigorous grower and a profuse bearer, ripening at the same time as the cherry. So far as observation h s gone, most birds seem to prefer its fruit to any other. It is believed that fruit to any other. It is believed that a number of mulberry trees planted around the garden or orchard would fully protect the more valuable fruits.

. . . Tomato Left-overs

H OW much food do we waste in a week because we do not know week because we do not know how to make up attractive dishes from small quantities that have b from small quantities that have been left over from a previous meal. For example, a half a can of tomatoes may be on the pantry shelf, but that is too small an amount to use in that way. What shall we do with it? Miss Oberlin of the Colorado Agricultural College makes a few suggestions along the line of making northing the suggestions along the line of making northinks was of the colorado and t College makes a few suggestions along the line of making profitable use of tomato left-overs. She says: Half a can of tomatoes may be quickly made into tomato sauce which will glorify a meat loaf, breaded veal chops, plain omelet, or a dish of baked beans or plain boiled macaroni.

Tomato Sauce

One and one-quarter cups tomato juice and pulp, two tablespoons butter, one teaspoon salt, two tablespoons flour mixed to a smooth, thin paste with cold water, a few grains cayenne epper. Add the flour and water mixture to the tomato juice and boil from five to 10 minutes, stirring all the time. Remove from the fire, add butter, salt, and pepper, and if de-sired, one tablespoon Worcestershire

Mexican Sauce

One onion, one red pepper, one-quarter teaspoon celery salt, two cups tomato juice and pulp, one green pep-per, two tablespoons butter, one table-spoon Worcestershire sauce. Chop the onion, cook for five minutes in butter, add peppers finely chopped, then add the tomatoes and seasoning. for 15 minutes, then add thin slices of cold boiled or roasted beef, and heat in it for a few minutes.

. . . Home and Efficiency

E hear a great deal nowadays about efficiency. And where is there a greater field for efficiency by than in the home? A director in ciency Service points out just what an essential factor this efficiency in the home is. "We know that the average housewife gets about 300 per cent. more out of the time and money available than her husband would," he says. "But we also know that from 20 to 40 per cent. of the motion in the average kitchen is lost motion, and that one dollar out of every five spent on the household is wasted."

This same director has prepared a home efficiency chart for the house-wives and mothers of this continent, requesting that they study it carefully and then grade their own efficiency of home affairs. Here are the questions asked on the chart:

"Do you take joy and pride in your

'Can you finish your daily duties in eight hours? "Have you ever counted and tried

"Have you ever counted and tried to cut down the number of needless steps you take in a day's work?
"When you are tired out, can you rest and recuperate easily and

"Have you time and strength in the evening to enjoy home pleasures with the family?

"Do you keep daily records of ex-enses with a modern filing system??

"Do you plan your meals a week ahead and use all the 'left-overs'?" "Do you order and prepare meals on a scientific system of nutritive values?"

"Do you know the signs of fresh meat, eggs, fruits and vegetables? "Do you buy food, clothing, furnishings, etc., on a scientific system of

"Do you spend a day away from home at least once a month? "Do you take a vacation from your

family of at least two weeks every "Do you know where and with

whom your children play?
"Can you answer all your children's questions without evasion or embar-

assment? "Are you teaching your children how to earn, to save, and to spend

"Can all the members of your family use hands and brains equally well?

Have you developed a saving sense humor

"Is your home equipped as well as you can afford with modern appliances to make your work easier and your home more healthful?

"Are you interested in the life of your community and do you do your part to improve it, or to maintain a high standard of living P"

Hens Need Not Work

FAMILY which had only recent A ly come into great wealth bought a huge country estate. One day at a reception the wife was telling of

at a reception the wire was telling. whe mew purchase.

"It's all so interesting," she gushed. "We're to have our own cattle, horses and pigs and hens."—
"Oh, bens?" interrupted another guest. "And they'll lay fresh eggs for guest.

"I don't know," was the rather frigid response. "Of course our hens can work if they want to but situated as we are it really won't be necessary."

The Wonderful Mission of the Internal Bath By G. G. Percival, M.D.

O you know that over three hundred thousand Americans are at the present time seeking freedom from small, as well as serious ail-ments, by the practice of Internal Bathing

Do you know that hosts of enlighter.ed physicians all over the country, as well as osteopaths, physical culturists, etc., etc., are recommending and recognizing this practice as the most likely way now known to secure and preserve perfect health?

There are the best of logical reasons for this practice and these opinions, and these reasons, will be very interesting to everyone.

In the first place, every physician realizes and agrees that 95 per cent of human illnesses is caused directly of indirectly by accumulated waste in the colon; this is bound to accumulate, because we of to-day neither eat the kind of food nor take the amount of exercise which Nature demands in order that she may thoroughly eliminate the waste unaided-

That's the reason when you are ill the physician always gives you some-thing to remove this accumulation of waste, before commencing to treat your specific trouble.

It's ten to one that no specific trouble would have developed if there were no accumulation of waste

and that's the reason that the famous Professor Metchnikoff, one of world's greatest scientists. boldly and specifically stated that if our colons were taken away in in-fancy, the length of our lives would be increased to probably 150 years.

You see, this waste is extremely poisonous, and as the blood flows through the walls of the colon it absorbs the poisons and carries them through the circulation - that's what causes Auto-Intoxication, with all its perniciously enervating and weaken-ing results. These pull down our powers of resistance and render us subject to almost any serious complaint which may be prevalent at the time—and the worst feature of it is that there are few of us who know when we are Auto-Intoxicated.

But you never can be Auto-Intoxicated if you periodically use the proper kind of an Internal Bath that is sure.

that is sure.

It is Nature's own relief and corrector—just warm water, which used in
the right way, cleanes the colon thoroughly its entire length and, makes
and keeps it sweet, clean and pure as
Nature demands it shall be for the
entire system to work properly.

You undoubtedly know, from your personal experience, how dull, own personal experience, and unfit to work or think properly. and unit to work or think properly, billiousness and many other apparent-ly simple troubles make you feel. And you probably know, too, that these irregularities, all directly traceable to accumulated waste, make you really sick if permitted to continue

You also probably know that the old-fashioned method of drugging for these complaints is at best only par-tially effective; the doses must be increased if continued, and finally

increased if continued, and finally they cease to be effective at all. It is true that more drugs are probably used for this than all other human ills combined, which simply goes to prove how universal the trouble caused by accumulated waster really is—but there is not a doubt that drugs are being dropped as Interval. drugs are being dropped as Internal

drues are being dropped as Internal Bathing is becoming better known—
For it is not possible to conceive until you have had the experience yourself, what a wonderful bracer an Internal Bath really is; taken at night, you awake in the morning with a feeling of lightness and buoyancy that campt the account to account the convention of the control of the control of the convention of the con that cannot be accounted for - you are absolutely clean, everything is working in perfect accord, your appe-tite is better, your brain is clearer, and you feel full of vim and confidence for the day's duties.

dence for the day's duties.

There is nothing new about Internal Baths except the way of administering them. Some years ago Dr. Chas. A. Tyrrell, of New York, was so miraculously benefited by faithfully using the method then in vogue, that he made Internal Baths his special study and improved ma-terially in administering the Bath and in getting the result desired.

This perfected Bath he called the "J. B. L. Cascade," and it is the one which has so quickly popularized and recommended itself that hundreds

of thousands are to-day using it.
Dr. Tyrrell, in his practice and researches, discovered many unique and interesting facts in connection with this subject; these he has collected in a little book, "The What, the Why, the Way of Internal Bathin-"
which will be sent free on request if
you address Chas. A. Tyrrell, M.D.,
394, 280 College Street, Toronto, and mention having read this in Farm Dairy.

This book tells us facts that we never knew about ourselves before, and there is no doubt that everyone who has an interest in his or her own physical well-being, or that of the physical well-being, or that of the family, will be very greatly instructed and enlightened by reading this carefully prepared and scientifically correct little book.

and stopp doggie.





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CREAM

WE WANT YOURS Profitable Prices Promptly Paid BELLEVILLE CREAMERY LTD. BELLEVILLE, Ont.

REAM is not so well cared for on REAM is not so well cared 107 on the farm now as it was a few years ago. This is true in Kan-sa and to a considerable extent in some parts of Canada. In Farm and Dairy a few weeks ago we told of how the Kanasa cream buyers are endeav-ber to the constitution of the conoring to bring the necessity of cooling before Kansas cream producers. The following paragraphs from the Kansas Farmer explain just why the slogan of "Cool your cream" is necessary.

cessary:
"The idea of cooling to produce cream of best quality is not new. It has been preached to dairymen since the inception of dairying on a com-mercial scale. The dairyman who makes butter on the farm knows better the advantages of good butter than does he who separates cream with a centrifugal separator and who sells that cream to the creamery. The farm buttermaker knows the necessity for holding milk at the temperature of well or spring water to induce the 'raising' of the cream. The farmer who in the early day patronized the skimming station and sold whole milk thereto realized the necessity of milk thereto realized the necessity of cooling Saturday night's and Sunday morning's .ailk with well water to keep it sweet for delivery the following Monday morning. He not only realized the necessity, but he also did it, and, so doing, delivered absolutely sweet milk. et milk.

"But since the selling of cream has come into vogue and the cream is separated with a separator, many neople have forgotten the value, and, in fact, the necessity for cooling cream it order that it be delivered sweet or only moderately sour to the

Through this oversight the butter "Through this oversight the butter made from separator cream is not up to the so-called "whole milk" stan-dard, but there is no reason why it should not be. Cream, held at the temperature of average well water in clean cans will produce as wood but-ter as that from 'whole milk.'"

The Test of a Maker

The Test of a Maker

T is indisputable that even the best of makers have occasionally a day went of two in which they cannot the control of t course, there is a vast difference be-tween a good maker's product and that of a poor or indifferent maker. Even though the milk received is not perfect, the maker who is suffi-ciently wide-awake to immediately-cognize the condition is often able to overcome the defects contained in the milk. The science of cheesemsking consists of counteractine the natural

The Makers' Corner and Cheese Makers are invited to send contributions to this department, to ask questions of manters relating to cheese making, and to suggest subjects for discussion.

Cream Cooling Neglected

tendencies of the milk to decompose, or rather to check this te-dency just at the John the process of the collidary of the control of the process have department, to ask questions of the actifity. When he milk is gaseous, the process is delayed, until the extra culture starter used he milk to decompose, or rather to check this te-dency just at the John the development of the collidary. When the milk to decompose, or rather to check this te-dency just at the John the development of the collidary of the collidary in the development of the collidary of the milk to decompose, or rather to check this te-dency just at the John the development of the department, to ask questions to the chistic reduced the collidary of the collidary and the process have a collidary and the process have a collidary and the process have a collidary to the collidary and the process have a collidary. When the milk is a chief to be diminished and the process have department, to ask questions of the action of rnese items are mentioned merely to draw attention to the ability of the maker to save the quality of the cheese, although the quality of the milk received is defective. — Chicago Dairy Produce.

A Book for the Maker

HE man who would keep to the front nowadays requires a know-ledge of the latest and most ap-proved methods on hadiling the work incident to the season of the season of the rue of the control of the season of the tree of the season of the season of the temperature of the season of the season of the formed men and it is in view of this fact that Martin H. Meyer has written his "Modern Butter Making," Is it he has incorporated the results of his 5 years of experience, both on dairy farms and in creamery buttermaking, as well as instructor in dairying at front nowadays requires a know arms and in creamery buttermanage, as well as instructor in dairying at the University of Wisconsin.

This book, which has just come to hand, deals with all the details of

creamery buttermaking from the time the milk or cream is received at the creamery door, until the patron re-ceives his cheque. Realizing the need for greater accuracy in training for calculating the dividends at creamer-ies, as well as in making other mathe-matical calculations, a few chapters have been devoted exclusively to this part of creamery work. The hook part of creamery work. The book may be had through Farm and Dairy at the regular price of \$1.50.

Owing to the poor location of many Owing to the poor location of many of the fac', ies, factory drainage has been a difficult problem to deal with, but where septic tanks have been installed, the results have been found quite satisfactory.—G. G. Publow, Chief Dairy Instructor for E. Ontario.

The weakest points in connection with the manufacture of our cheese are, 1st, lack of facilities for the procure control of temperature of curing commit; 2nd, over-ripe and tainted the warm weather; 3rd, lack of competent and sufficient help to enable the makers to manage their factories successfully at all times.—G. G. Publow. Publow.

Studies in Contagious Abortion (Continued from page 9)

dairymen are unwilling to accept the recommendations with the involved labor and expense. To these we have recommendations or suggestions no recommendations or suzgestions to offer. But to the few who are willing to undertake the work as a permanent part of dairying and breeding can confidently recommend the plan as reliable, "Geter and economically profitable. in those herds to the plant of the plan cally profitable. In those herds where we have been able to induce owners to apply the method con-scientiously, it has been highly satisfactory, reducing abortion, premature birth, retained afterbirth, and sterility, and holding it to a very low amount. (Continued next week)





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THE PEOPLE'S DAIRY CO., TORONT



here being keen competi

November 11, 1915

A Letter from Ho

our Dutch Correspond Schoenmaker

NOTICE by the issu and Dairy of Aug. 15

made use of my letter ag a Cow." I would like two remarks on this subject

common cows which go

lyes, we milk one day, at just examine the udd

tesirous of drying good raho are still milking wel alking on a certain day, as milkings (not for thr

nted in my former letter)

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I am sending along a pi

mique cow stable as it he summer when not in

stice to the copiousness will be noticed, however en shells. Against the placed ancient delf procedure and brass kettles

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ame shade as the ceiling outer is placed a black rooden floor. The curl minted yellow. The floor

black, but is covered a

carpet, a mixture of blacellow. On the left will acient Edam cheese press

The farmers who fit their this way, however, are

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TRST of allwith "Osha Shingles? No m the foundation, o the walls, if s not weather manent, th

or soon will beworth-

> is storm downwar cap, whi so as to

Branches:

A Letter from Holland our Dulch Correspondent, Mr. D. Schoenmaker

NOTICE by the issue of Farm and Dairy of Aug. 12, that you made use of my letter on "Dry-a Cdw." I would like to add a remarks on this subject, as my

revious letter was too short. Common cows which go dry them lyes, we milk one day, and after a just examine the udder to see at she is drying well. When we are nat she is drying well. When we are estrous of drying good milch cows he are still milking well, we stop alking on a certain day, then omit smilkings (not for three days as a milkings (not for three days as a steed in my former letter), and milk see more. If her udder is in good condition, we do not milk again.

I am sending along a picture of an anique cow stable as it appears in the summer when not in use. I among that the picture does not do to the copiousness of colors. will be noticed, however, that the m shells. Against the stanchions or placed ancient delf ware and orcelain and brass kettles, etc. The nchions are painted deep blue, the ime shade as the ceiling. On the utler is placed a black varnished coden floor. The curb stone is ainted yellow. The floor is varnishblack, but is covered as well with carpet, a mixture of black, red and slow. On the left will be seen an accent Edam cheese press. The farmers who fit their stables up

this way, however, are now scarce. earlier times every farmer did so, he being keen competition as to

a

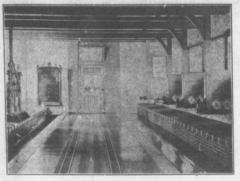
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Summer in a Dutch Dairy Stable

Part of the floor is varnished. The rest is carpeted. The timbers above are painted in varied huse. Our Dutch correspondent, D. Schoemaker, assures us that this method of decorating a dairy stable in summer is less common now than it one

Boys as Stock Judges

I F a boy gets training in judging good dairy cattle, he will not be content to breed poor, scrub cattle on his own farm when he reaches years of maturity. This fact makes the judging work at rural school fairs

a dark room. This picture is taken of great future value to the Canadian on the farm of Mr. Buurman, West-live stock industry, G. R. Green, wood, Oudyk. live stock industry. G. R. Green, District Representacive for Oxford Co., Ont., tells of one judging com-petition at Brownsville in his county as follows:

"In connection with the judging competition, we arranged to have two classes, one Ayrshire and one Holstein, including three pure-bred cows in each. Four teams were entered, three boys from each school. Previous

to the School Fair, I learned, quite by accident, that one of the men inter-ested in the Brownsville School Fair had, on four different occasions. had, on four different occasions. taken the boys out to neighboring farms. At one place he gave the boys a talk himself, at another time he secured the services of Mr. R. I. Kelly of Culloden, the third time Mr. Thompson of the Farmer's Advocate Winnipeg, and Mr. Empey, a pure bred Ayrshire breeder in the vicinity on the fourth occasion. The boys were given an opportunity of placin; the animals and civing their reasons, the animals and giving their reasons, and a record was kept accurately Previous to the Fair, a team was pick

Previous to the Fair, a team was picked out from the boys who had attended these classes. As a result, Brownsville had the winning team on the
day of the Fair.
"The school boys at Mt. Elgin vere
trained also by Mr. Frank Harrit of
Mt. Elgin, and the teacher at Ostrander School, who, by the wry's is
to be peared from and gave them their
the nearest farm and gave them their the nearest farm and gave them their initial instructions before Fair Day arrived. The teacher in question was arrived. The teacher in question was a new one in the county, and saw the prize list for the first time only the day before the fair. On seeing the judging contest included in the list, he lost no time in taking steps towards having the boys receive some instructions before time. Had the competition been called to his attention sooner, I feel sure the boys in his school section would have made a better showing." a better showing.

The United Farmers' Cooperative Company, Ltd., are now located in their new offices at 110 Church St.,

TIRST of all-the Roof-is it shingled I with "Oshawa" or "George" Shingles? No matter how strong the foundation, or how tight the walls, if the roof s not weather-tight, fireproof and permanent, the building is-

or soon will beworth-

OOD Ventilation is very important to the health of your stock, or the successful marketing of your crops. A poorly ventilated barn might easily cost you more than a new building. Proper ventilation demands that a large volume of air be kept constantly moving, but not too quickly,

Word

About

preventing dangerous and unnecessary draughts. "Superior"

DEDLAR'S "Oshawa" Galvanized Steel Shingles have stood the test Made in two distinct of time. models, 660A and 660B, the

"Oshawa" Shingle (size 16" x 20") is ideal for the average barn or dwelling. The "George" (size

> 24" x 24"), for extra large

roofs.

BARN

is storm-proof, bird-proof, durable, and prevents a downward current of air. It is made with a stationary cap, which is acted upon by the natural air currents, so as to produce a suction which draws up the impure air. This impure air is replaced by pure, fresh air which enters through inlets in, or near, the floor, preventing the accumulation of hot air, vapors and gases which are, all too often, responsible for damage to stock or grain,

Write to-day for literature, and ask for Booklet "V F. D." Address nearest Branc

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hs. fat, 4.7. per cent. fat,
kekee. corwich.
Top., 34372; 5763 lbs. mill
38 pr cent. fat, 566 dys.—
Las. Hydro of Springba
he milk, 324 lbs. fat, 4,41
tit dys.—James Begg & Screen.

BERAT AVESSIBLE II.

By W. F. Steph

O'SE of the most interes

at "Sirtakhigas Farm." For

I. on October 23rd. The pr

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GILSON THIS GASO Johnson & She Spot ENGINE \$47.50

CLEAN TIMOTHY SEED

GEO. KEITH & SONS - TORONTO

PIGS WANTED

would like to purchase York-shire sows in Western Ontario and Berkshire boars in Eastern Ontario or Quebec, Pigs to be from six to eight weeks old. These are needed for FARM AND won them as premiums.

FARM AND DAIRY

FOR SALE AND WANT ADVERTISING

MARKET REVIEW AND FORECAST

TORONTO, Nov. 8.—There has been to quite a remarkable three railways during the month of October. The combined gross earnings of the three combined gross earnings of the combined gross earnings ea

COARSE GRAINS.

COARSE GRAINS.

Ty unchanged This market are practically unchanged this market are practically unchanged this market are considered to the constant of the con

Quotations: Bran, 821; shorts, \$23; mid-dlings, \$25; feed flour, bag, \$1.40; linseed meal, No. 1, sells for \$4 a owt; No. 2, \$3.50 f.o.b. mills; oil cake meal, \$36.50 a

ton f.o.b. mills; cottonseed mesl, \$35 to \$37.56 f.o.b. Toronto; gluten feed, \$25 f.o. b. mills; corn meal, sacks, \$2.55 to \$2.40 On the Montreal market bran is quoted. \$21; shorts, \$25; middlings, \$29 to \$30 moultie, \$30 to \$32.

Advices have been received that the New York buyers have refused to buy any more Gandaian So. I hav at the top of the complete of the top of the top of the complete of the top of the top of the prices. So the top of the top of the prices. So the top of the top of the prices. So the top of the so the top of the top of the top of the so to the top of the top of the top of the so the top of the top of the top of the so the top of the top of the top of the so the top of the top of the top of the so the top of the top of the top of the so the top of HAY AND STRAW

HIDES AND WOOL Wool is coming to the market in small shipments and no change in prices are reported. Quotations: Hiden fast, cured, if to 15%; part cured, ide to 16%; catelistins, cured, ide to 18%; part cured, ide to 18%; part cured, ide common, or 100 scal, 1, 8, 75 to 84.25; No. 2, 100 scal, 1, 8, 75 to 84.25; No. 2, 100 scal, 1, 8, 75 to 84.25; No. 2, 100 scal, 100

DAIRY PRODUCE.

Quotations on creativery butter have been on the downward trend this past week, finest creamery solid trend this past week, finest creamery solid trend this past was a superior of the make in the solid trends of the solid creamer and the failure of the solid creamer and the solid creamer an

follow: DAIRY BOARD SALES.

Lions Colows: 17 BOARD SALES.
Victorianily Que, Nov. 5-509 boxes of cheese sold here to-day at 10%;
Apance, Nov. 5-160 boxes of white and 457 boxes of colored and leaves victorian of the colored and the col

at 50c.
Cowansville, Que., Nov. 6.—561 packages
butter sold at 51%c.
Perth, Nov. 6.—400 boxes of white and 200
colored cheese sold at 16%c and 16%c.
LIVE STOCK.

Syth, Nov. 5.—400 boxes of white and 200 colored cheese sold at 10½0 and 10½0.

LIVE STOCK.

1,000 less than during the week even nearly 5,000 less than during the system of the week and prices advanced 150 to 50 above those quoted last vegk. Towards the end of the week and prices advanced 150 to 50 above those quoted last vegk. Towards the end of the week and the week ended with stockers and foeders quite. About the prices arrived on the magnet total-led considerably less than a week and the system of the system o

now only on the basis of tol and watered, and went this week at \$8.5, 50 89.

and went this week at \$8.5, 50 89.

It is a second to the second to the second market prices for the week at Montreal was a little stronger feeling for the best butchers earlie, which advanced for a cut.

In the second to the second

AYRSHIRE NEWS

Farm and Dairy is the recognized exponent of the Dairy interests of Canda. Breeders of Ayrshire Cattle and all members of the Canadian Ayrshire Breeders' Association are invited to send items of interest to Ayrshire breeders for prolification in this column.

AYRSHIRES IN R.O.P.

AYBSHIRES IN R.O.F.
Arzhire Cowa and Helfers that have
Qualified in the Record of Ayerformanos
Test from July 1 to Sept. 39, 1955;

Horraide Velocia the Sept. 39, 1956;

Burnaide Velocia the Soffer (Six Biss milk,
59 lbs fau. 3, 59 per cent. fat. 56 dys.—
Western Flot Co. Nanalino, 13 mills, 66
Ottawa Este. 97 cent. fat. 56 dys.—
Discourage of the Sept. 10 mills, 10 mills, 65
Louise Sed. 2307; 1509; bs. mills, 65 lbs.
Louise Sed. 2307; bs.
Louis

Two-Year-Old Class

TWO AYRSHIRE SIRES

Nine and eleven months old; one whose dam as a 2-year-old R.O.P. made 800 be milk—305 bs. fat. Both are neat ones—rich ly bred. Write if you need a good one for

WILLIAM BRITTON, R.R. 1, CLINTON, Oat.

LAKEVIE'Y STOCK FARMS, BRONTE, ONT. seders of high-clas Holstein-friesian Catthesiale, a Choice Young Bull, born May I't of a 55th 5-yr. old Dam and sired by Du. Mona, herd airs No. 2, who is a full bre. World's champion 5-yr.-old milk cow. Putculars on a paylection.

ividual making the highels be demonstration and justed by Prof. H. Barton legs. Que, who is recognished to the man and the man and the man and the man and the demonstration of the man and the Units of the Man and the Man and the Units of the Man and the Ma draw—Gurge M. Remick, B. H. No. 1. vac kleek IIII.

Four-Year-Old Class.

Juno of Reckton Frd, 3609; 11003 hs milk, 460 hs fat, 5,70 per cent. fat, 35 div.—Estate of Geo. McCormack, 355 cm. 100 hs milk, 460 hs fat, 4,00 per cent. fat, 156 hs milk, 356 hbs fas, 4,00 per cent. fat, 156 hs milk, 356 hbs fas, 4,00 per cent. fat, 156 hs milk, 35 mbr. and 150 hs milk, 35 hs mbr. and 150 hs milk, 35 hs mbr. and 150 hs milk, 35 hs milk, 35 mbr. and 150 hs milk, 35 hs milk, 35 mbr. and 150 hs milk, 35 hs milk, 35 mbr. and 150 hs milk, 35 hs milk, 35 mbr. and 150 hs milk, 35 hs milk, 35 mbr. and 150 hs milk, 35 hs milk, 36 hs milk, 40 hs milk, 40 hs milk, 40 hs milk, 35 div.—A to milk, 35 hs milk, 35 div.—A to milk, 35 hs milk noticed "Beuchan "
Lady Costance." "She
Lady Costance." "She
she "Fairfield Mains Jee
Snow," "Burnside Std
Snow," Maple Leaf Bonnet 2nd, 2635; 19009 hs. milk, 380 lbs. fat, 5,78 per cent. fat, 38 dys.—R. 8. Pringle, Huntingdon.
Primrose of Walnut Grove, 6275; 89 hs. milk, 331 lbs. fat, 5,80 per cent. fat, 365 dys.—W. H. Green, H. R. No. 4, Brastford ford hakland Relieflower, 34375; 8428 lbs. mik. 35c lbs. fat. 4.21 per cent. fat. 35c dys. George H. Stokes. Tweed May's Jewel. Ma9's Jewel. Ma96, 7348 lbs. milk, 338 ls. fat. 4.6e per cent. fat. 364 dys.—A. 86 wards. Jr., Chatham. Thos. 3748; 755 lbs. milk, 228 lbs. 5a. Floss, 3748; 755 lbs. milk, 228 lbs. 5a.

day's proceedings does a great day for the Ayr and all weever of one a great day for the Ayr Profit Barton and dar La Sees Eds.A. had it was a second of the Ayr and the Ayr a

pinion. Sometimes thagree with the decis

too, there were class and farm teams, which called to pass on and e total score. When-th aged herds came out i il display, a tribute to pluck of the sowner am

E.F. OSLER, Prop. T. A. DAWSON, Mg.

Farm and Dairy

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Eggs Write us tonight about handl-ing all your Cream for the coming winter. We want all the New Laid Eggs you can produce.

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By W. F. Stephen.

O'E of the most interesting and promake field days for Archite breedmake field days for Archite breedit strathglass Farm. Ports that held it
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demonstrations and judging color
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any ladies were also present who seemto enter with zest into the spirit of

Lacy ladies were also present who means to end out of the set min to enter with set into the pairl of edgy, on a luncheon was served by the days are sent of the service of the set of the

care of those directly in charge of adv's proceedings closed about 4.30 and all were of one mind that it as a great day for the Agrahire men. By Profs. Barton and Garrigna. assisted A. Bass. Båå. had the results tables of the Agrahire men. By Profs. Barton and Garrigna. assisted the Agrahire men. By Profs. Barton and Garrigna. assisted to the points of the points. The highest individual score made by Dunham of Cornell, with 399 to 18 for the points. The highest individual score made by Dunham of Cornell, with 399 to 18 for the points. The highest individual score made by Dunham of Cornell, with 399 to 18 for the points of the points of the points of the points. The highest individual score cornel on the work of the boys. Prof. when it came to the horse, Coming on the work of the boys. Prof. or expressed thimself as being well as the points of t

NEW BHUNSWICK
TOBIQUE RIVER, Oct. 31.—Harresting of all acops in now over. Grain of all linds was a good average crop and well taken off, Potals as were a light crop compared off, Potals as were a light crop compared of the state of the st

QUEBEC

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RICHMOND CO., QUIL

BANVILLÉE, Out. ZZ.—We have had a fine, warm fall, very little rain; crops all in, with the exception of a few fields of well. He had been considered as the control of the c

ONTARIO

Monday, Nov. 1st.—A.B.S.

REFY CO, ONT.
THORNBURY, Nov. 1.—We had a lot of wet weather during September, but we have been favored with lovely weather for the loss of the loss

ing at 95.10 to 95.25 c.wwi.; prices on bed cattle vary—AA. EEPTA AL. EEPTA EEPTA AL. EEPTA EEPTA EEPTA AL. EEPTA EE

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