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PETERBORO, ONT.

JULY 28.

1910



A SUBSTANTIAL WELL KEPT HOME OF A PROSPEROUS WESTERN ONTARIO FARMER

The home illustrated is one of the fine farm homes of Middlesex Co., Ont. It has all modern conveniences, the The nome mastrated is one of the line farm nomes of minutesex co., Ont. It has an mouern conveniences, the latest one added to it being the telephone. Mr. John Leach, the owner, is a first class farmer, making a speciality of breeding good stock and growing big crops of wheat and corn. Mr. Leach's home is beautifully situated on a of breeding good stock and groung org crops of the state and cold. All Leading home is beautifully studend in a slight elevation and as may be seen is surrounded by a well kept lawn. Ornamental and fruit trees also add much to the joy of living on Mr. Leach's farm.

> DEVOTED TO BETTER FARMING AND ANADIAN GOUNTRY LIFE

Why the Link Blade is Best

When buying a Cream' Separator, you want the best you can buy. A poor Separator, instead of making money for you, will lose money. You might as well use the old milk pans as a poor separator. A good separator will not make as much money for you as the best will. Read some of the reasons why the Link Blade Separator is the best on the market:

- 1.-INCREASED CAPACITY .- The Link Blade device has an increased capacity of from 30 to 50 per cent. over the most efficient of previous devices, combined with very clean skimming, under a wide range of
- 2 .- EASY TO CLEAN .- The blades do not come apart, and so can be washed and handled all in one piece.
- 3 .- NEVER GETS LOOSE .- The device is expansible and fits the bowl snugly. It can never become loose or shift in the bowl, and throw it out of balance.
- 4.-NO STRAIN.-The pressure is distributed through a series of brass rivets, so there is no strain on the blades themselves.
- 5 .- EASY TO TURN .- Being more efficient, it is lighter and smaller in order to do the same amount of work, and is accordingly easier to handle.
- 6 .- WILL NEVER CLOG .- When making a long run, the deposit of sediment on the inner wal lof the bowl will never clog or choke off the supply of milk. Link Blade machines have run for three or four hours continuously, and the test of the skim milk showed as close skimming at the end as at the beginning of

Let us Show You. Have a Link Blade machine set up for a free trial. Write for free booklet, and the name of our nearest Agent.

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"BT" STEEL STALLS and STANCHIONS



with Cament Floors reduce labor to a minimum, and make bright and sanitary stables. They are practically indestructible while the out-of-date stables are constantly in need of repairs, and are short lived compared with the control of the process of them.

Our new catalogue contains a lot of valuable information for you if you are building a new plant or remoderating the pour name and address plainly written will bring it. WRITE:

BROS. Can. Fergus, LITTER CARRIERS, HAY CARRIERS, ETC.

The Late Wm. Rennie

Mr. Wm. Rennie, the well known seedsman and agriculturist, who has been in poor health for some time past, died at his residence, Swanson, Ont., Sunday morning, July 24th. Ontario farmers and many other ar-riculturalists throughout the Dominock are well acquainted with the work that Mr. Kennie did for the advance-

ment of Canadian agriculture.

Mr. Wm. Rennie was born in 1835 in a humble log cabin in Scarboro. His father and mother having emigrated from Scotland a few years pregrated from Scotland a few years pre-vious were in a very poor circum-stances. His early days were spent on the farm. Many farmers of the pres-ent day are familiar with the Rennie hemestead in Scarboro, which has long since been known as the "Gold Medal Farm," of Ontario. In 1860 Mr. Rennie left the honastead and started farming for himself on the second concession of Markham, near Richmond Hill. In 1870 he rented his established a seed business, which is te-day one of the largest concerns in Canada. Shortly after establishine his seed business Mr. Rennie found it necessary to grova a large portion is his seeds, and again assumed charge of his farm. With more improved methods and a better knowledge of agriculture, he developed his farm se agriculture, he developed his farm se-that in 1884, in competition for the standard heart and the second second heart and the first silver medal, while his brother, Sumpson Rennie, won the load medal. Mr. Rennie's farm was the centre of some very interesting tatherings in connection with what is known as the "Markham Farmers" (Inb." These annual reunions used to bring together upwards of a theus-and people.

and people.

Mr. Rennie retired from business in Mr. Rennie retired from bissness in 1889, leaving the now well-known Rennie seed establishment to his three sons—Robert, John and Thomas, In 1893 he was asked by the late Hon. John Dryden, then Minister of Agriculture, te take the position of Farm Superintendent at the Ontario Agriculture, Cellege as fought, to de-Agricultural College at Guelph, to de-Agricultural College at Gueipin, to ac-monstrate his new ideas regard-ing agriculture. This he did, and re-mained with the College for six years-bringing the farm to a high state of-cultivation, and thoroughly beau-strating his methods. Upon his re-teurn to Torrotto he put into book form all his valuable information and ex-perierree in a volume known as "Suc-cessful Farming," a book which has been read with profit and interest by

been read with proit and interest by many of the farmers of Canada. Through his skill and enterprise in agriculture and related pursuits, Mr. Rennie was brought a good deal into public view and although he had been for some years living a very private life, he is still well remembered by an unusually wide circle of intimate

Farm and Dairy would like te see a movement started to erect a suitable monument to the memory of Mr. Rennie, in recognition of his services to accignitus. We would succeed that We would suggest that uch a monument be erected by subsuch a monument of the seriptions collected from farmers all over the country on the grounds of the Ontaric Agricultural College.

Lice on Turnips

My turnips are badly infested with lied

My turnins are badly infested with lice. Please give me instructions for cambating this pest.—A. S. M., Lambton Co., Ont.

The insect affecting your turnippis the turnip aphid. This insect is not carried to the containing at least it will be the standard is stored to the containing at least th

green would not be ineffective as the aphid is a sucking insect.

Items of Interest

According to a Canadian Association Press despatch the foot-and-mouth diseress despatch the root-and-mount dis-case from which the cattle of Great Britain have long been free, has ap-peared on a farm in Yorkshire. A wide area around the affected district has been quarantined.

has been quarantined.

Mr. H. S. Peart, B.S.A., Supt. of
the J-rdan Experimental Fruit Farm.
died on the evening of July 19th.
Mr. Peart was z young man just in
his prime. He had 'e-en long enough
in charge of the Jordan Station to
demonstrate something of the good
work he was capable of doing for the
fruit grower. fruit grower.

despatch from Winnipeg dated July 21st, states that reports from Gretna have it that the black grass-heppers, the most destructive pest ever known in the North-west, have made their appearance in swarms within the

Prize Farms Are Judged

The results of the judging of The results of the judging of the prise farms, entered in the Dairy Farms Competition con-ducted by Farm and Dairy to determine the best dairy farm in Ontario, will be given in Farm and Dairy next week. The re-port of the judges and the ex-tended scores of the first five or six farms will be published in detail.

The smaller farms and the large farms have divided the honors for the high places pretty evenly. Some of the farms profited greatly in the placing over last year from improvements that have been effected thereon since the first awards were made a year ago. The judges made a minute inspection of the farms and consider a second visit un-

past few days, and are attacking gar-den stuff. Frem 1871 to 1874 they den stuff. den stuff. Frem 1871 to 1874 tue; covered the country in swarms, eating everything green, and stripping the bark from the poplar trees after they had destroyed the cross. The gras-hoppers are large, and have a wid-spread of wing, resembling butterflu-when in flight. They have come when in flight. the Dakotas, and appear to be headed north

north.

A cablegram from International Agricultural Institute, Rome, giveyield of wheat crop estimated July 1sa fellows: Italy, 185, 495, 580 bushels to present the property of the propert

A Correction

A Correction
In the article about the Farmers
Dairy Ce., of Toronto, that was published in the July 21st issue, of Farm
and Dairy, a slight error occurred.
Mr. Farmer, the manager of the commany, was quoted as follows: "Opmembers are required to two with milk containing at lenst three
and one-half per cent. of butter fat.
Any milk below that standard is skinmed. The members who furnish it ar
docked two cents a gallon for every med. The members who furnish it are docked two cents a gallon fer ever one-tenth of one per cent. that the milk falls below that standard is similar premium is paid to those pro-ducers whose milk tests over three are one-half per cent."

one-half per cent."

This should have read two cents

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Only \$1.00 a Year

No. 30

Vol. XXIX.

FOR WEEK ENDING JULY 28, 1910.

SOME REQUISITES OF A MODERN DAIRY COW STABLE

A. Leitch, Stormont Co., Ont.

Many Stables are Wholly Unfit to be in the Business of Producing Human Food. The Cause of much Polluted Milk. Comment on Up to date Improvements that may be Installed.

How often we see good cows imprisoned in dirty, dark, ill-ventilated stables! We are obliged to wooder whether or not milk produced amidst such surroundings can be fit for human food. People are too prone to censure the city dealer for all the impure conditions of his milk, and everyone knows that he is culpable conough, but few stop to consider that it is back at the fountain head of the supply in the producer's stable that much of the cause is found.

Many of the stables that I have visited were absolutely unfit for habitation of any creature, much less for the home of the animal that provides the most important and most easily tainted of human foods. The majority of them are low, dark, entirely without ventilation, except for the

occasional opening of doors; the cows were tied in cumbersome wooden stanchiens as helpless as men in the stocks. In some cases the mangers were old rickety boxes, in which uneaten particles of food were allowed to collect and putrefy. It is still very common to find in cow stables weoden floors, under which the liquid manure collects and decomposes, giving rise the year round to obnoxious gases and odors, which contaminate the milk on the slightest ex-

LACK OF CLEANLINESS.

Worst of all, with these cenditions there usually goes hand in hand an angular lack of cleanliness of the cows and attendants. The animals never feel a comb or a brush from one year to a brush from one year to another, and their flanks and thighs become covered with manure which cannot help falling off into the pail durfalling off into the pair durfalling off in

M,

ing the operation of milking, and this is laden with myriads of putrefactive germs. Little wonder that people who receive such milk days after infection have disease and death dealt out to them and to their children. These details are not at all pleasant, but nevertheless they present the truestate of affairs that prevails ca a considerable percentage of milk-producing farms. A revolution in the conditions of farm buildings would remove \$15%, of the cause of the polluted milk that finds one way to cities.

GOOD STABLES DEFINED.

What constitutes a good condition of stabling for a dairy herd? I do not approve of underground stables. They are too difficult to light properly as they are not usually exposed to the light on more than one or two sides. Furthermore, dampness always goes with underground stables with stone or cement walls. The stable I like best is one well above ground on a stone or cement foundation. It should have a good deep

basement underneath through which the air can The stable must have a tight floor, circulate. preferably of cement, everlaid with planking in the stalls leaving the gutters and passages uncovered. The object of the plank covering is to prevent rheumatism and lameness, which, our own and other's experience has taught us, affect cows especially in the knees if allowed to stand or lie a whole winter on a cement floor. The stall should be just long enough to allow the cow to stand on it without having her feet in the gutter. The latter on no account should be more than feur and a half or five inches deep so that there is no danger of the cows injuring themselves slipping down into it. A slight fall towards the gutter of about one inch is desirable in both stall and



A New Stable in which the value of Sunshine and Ventilation has been Recognized

Seventeen double windows, 2 feet 6 inches x 4 feet, allow the sun to shine in every part of the stable sometime during the day. The King System of Ventilation furnished fresh air to the stock. This barn is on Mr. A. W. Caton's farm, Addington Co., Ont. See page seven this issue for plan and description of these stables.

passage in order that all liquid may collect in its proper channels.

IRON PIPE PARTITIONS.

The cheapest and strongest partition that can be erected between the cows is formed of iron pipe, imbeddd in the cement about half way from the manger to the gutter and extending upward and forward where it is joined to another upright pipe placed at the cow's head. To brace the whole thing securely the ferward uprights may be fastened to another bar running horizontally over the heads of the animals, which pipe will be found of use in fastening swinging stanchions, should the latter be made use of. Besides its cheapness and rigidity, the ease with which the stable can be kept clean is another important factor to be considered, for there are ne corners and crevices where vermin and filth can accumulate as is the case with the cumbersome wooden partitions so much in vogue.

Although the opinion of dairy experts is adverse, personally I prefer to have a manger in front of the cows. But recognizing the evils that accompany the usual style of box manger, I must add that that style is worse than none at all. A manger must be of such a formation that it caneasily be cleaned out, and the round-bottomed kind is the only kind that conferms to this condition. The reason that a manger is preferable to none at all, lies in the fact that in eating from a flat surface the cow is liable to push the feed out of her reach, either into the passage or back into the stall, amongst the bedding. A manger should be provided with partitions between the divisions allowed to the different cows, in order that they may be fed independently of each other, especially in regard to their meal ration. All dairymen who do not have mangers deplore the fact that this manner of feeding meal is unsatisfactory, and it seems to me that we must return to a medification of the manger that will enable us to feed our cows equitably and independently.

One good device that I have seen, but which was very costly, was a large galvanized iron trough about eight inches deep and 20 inches across, placed in front of the cows. The feed passage was elevated a foot and a half above the floer of the stall and the trough was placed right up against the edge of the elevation, so that the fodder was just dropped into the trough from the passage. The manger was provided with a partition between each cow, so that it was very satisfactory and made a very permanent and easily cleaned manger, though very expensive. A depression about six inches deep and two feet wide in the cement in front of the cow proves to be a very good manger, and many of this kind are in use and appear to give good satisfaction.

MEANS OF TVING

There are many excellent devices for tying cows; there are two outstanding good ones. The first is the swinging stanchion of iron pipe fastened above and below, and turning on a pivot at each end. This allows the cow a maximum of freedom, as she can lick herself or lie dewn with her head in any position she chooses. The other device is a light chain around the neck and sliding up and down a Lar at the side of the stall. This method is not so costly as the former and allows almost as much freedom.

Water is best supplied by a system of water buckets, many kinds of which are on the market. These should be placed high up out of the way of the animals while eating, and may be arranged so that ene bucket will do for two cows. LIGHT AND VENTILATION.

For most perfect lighting the stable should be narrow, and should not be occupied by more than two rows of cattle. The animals may be placed head to head, which facilitates feeding operations; but if feeding conditions will allow, I prefer standing the cows with their heads towards the windows. In our own stables the feed chutes open at the walls of the building, so we placed the cow's head outwards, though it was slightly at the expense of ease in feeding silage. This latter method facilitates the removal of the manure if it is drawn out daily, and as much of the stable work is done behind the cows, except the feeding, it appears to economise steps. This, however, is largely a matter of taste with the farmer himself.

Above all, there should be in the stable an abundance of sunlight, which is the cheapest and best natural disease preventer we have at our command. Light is best supplied by a number of deep, broad windows in the east, south, and west sides of the building-not the little narhorizontal slits, which some are pleased to call windows and which are too often seen in our stables. A good convenient size is a window four feet by three feet placed every 10 or 12 feet inside of a barn halfway between the ceiling and the flcor. This will provide sufficient light for the health and comfort of the

Practical Feeding Experience of a Dairyman

E. B. Mallory, Hastings Co., Ont. My experience with soiling crops for dairy cattle has demonstrated that their value depends much upon circumstances. Last year I used soiling crops, mostly peas and oats. This year I am pasturing second crop red clover instead. If anything my yield per cow is a little ahead of last year in July. I would not say, however, that this is due wholly to the different means of keeping up the flow, as about one half the herd

freshened a little later this year. DON'T EXPECT HOLSTEINS TO FORAGE.

Soiling crops are excellent feed for Holstein cattle, if the cattle are fed all they want and in variety. I prefer alfaalfa. The Holstein cow is a lazy animal in hot weather in regard to walking far to get her feed and prefers to go without feed and to lie in some cool place rather than forage for it. Therefore I would say that if no fresh pasture is to be had near the farm I would feed supplementary feeds, and feed them liberally. On the other hand if a field or two of red clover has been cut near the barn and it starts up nicely and the second growth gets about six inches high it will be a saving of time and therefore cheaper to feed this than to cut feed and haul it to the barn, for the stable is the only place to feed soiling crops if each cew is to get her fair share.

Another consideration not to be overlooked is the access to water. The cattle must have water, and if the new pasture has no water near it and the cattle are likely to go in want, then I would use soiling crops and sow my second crop of clover for seed.

FEED ALL THEY WANT.

Whatever is fed, however, whether it be pasture or soiling crops, let the cows have all they want. If soiling crops are used fill them up and de not let them have to depend on the old dry pasture field for part of their food, for a Holstein cow will do without till the next green feed is put before her rather than hunt on the old pasture for a spot or two she may have missed earlier in the season. If new pasture is provided let them have enough of it and when that piece gets eaten short, turn them into another. The milk flow must be kept up if good yearly returns are to be received, and when the flow is kept up the cattle also keep up in flesh, which is a point gained for the work of the next year.

I have two small pieces of alfalfa near the barn and if my new seeding does not come on well in the spring, or is not accesible for pasture after having, I sow whatever peas and oats, at intervals, that I think I will need to supplement the alfalfa.

This year I had a large quantity of new seeding, one 13-acre field right across the road from the barn with a spring creek running through one corner of it, so I did not provide any soiling creps except the alfalfa and this I have cured for hay and am feeding it to the calves. I have some sweet corn, however, coming on for the fall menths should it be needed because of drought or if the pasture gets eaten short.

LARGE RECORDS BY CONTINUED FLOW The foregoing is our experience in feeding and we are getting excellent results. Our herd averaged over 9,000 lbs, of milk last year and this year



Haying In New Brunswick

The illustration shows a haying scene in Maritime Canada. The photo was taken on the farm of Wm. Jardine, Kent Co., N. B. The one horse carts shown are characteristic of many parts of the Maritime Provinces. The large annual rainfall in Mas Brunswick gives ideal conditions for growing is sopposed hay.

we expect to reach an average from heifers and all of 10,000 lbs. each. This record will be accomplished only by keeping up of a steady flcw. The keeping of individual records shows very quickly when the milk begins to fail and a pound or two on a cow less every few days will soon reduce the daily mess to one-half what it should be.

Vice in Horses

Dr. H. G. Reed, V.S., Halton Co., Ont.

A horse may be sound and of good conformation and yet of little value because of being addicted to some vice, which makes him a more or less dangerous animal to use. Unsoundness is a disability. Vice, while not, strictly speaking, a disability, is often worse, because it may be dangerous, as, for instance, balking, kicking, pulling at the halter, running away, rearing, shying, and so forth.

While some animals appear to be naturally vicious, it is more often the result of improper



The Hay Loader at Work

The illustration shows a hay loader in operation on the farm of J. E. Caldwell, Carleton Co., Ont. Hay loaders are very useful where a large acreage of hay is grown, and help is scarce. They are becoming a necessity on many Ontario farms.

training or of bad habits acquired during idleness. Once a habit becomes confirmed it is often most difficult, if not impossible, to overcome. THE BALKY HORSE.

A balky horse is nearly always the result of bad management during breaking. About the only treatment for such a horse is kindness and unlimited patience.

Kicking is one of the worst vices in a horse. A horse that will kick in harness should never be tolerated. To detect a kicker examine for enlarged hocks and other injuries about the legs. Examine his stall for marks of kicking. Notice

if he remains kind when a strap is placed under his tail. A horse can be prevented from kicking in single harness by the use of a strap over the croup and fastened to the shaft on each side. In double harness it is most difficult. A kicker should always be checked very high to keep his head well up as it is very difficult for an animal to kick in that position. A confirmed kicker, hewever, might better be destroyed because of the danger to life and limb.

Running away is a most serious vice, and once the habit is formed it is most difficult to overcome. To detect this habit examine for lacerations about the mouth caused by the use of severe bits. Shying can easily be detected by trial. It is sometimes the result of cowardice or defective eyesight; in either case it is dangerous. If it is the result of mere playfulness er high spirits it can be overcome by firm and gentle handling.

MINOR VICES.

As well as these dangerous vices, we find a list of what are semetimes called minor vices. often very annoying. "Crib-biting" and "windsucking" are analogous terms. A cribber will place his teeth against the manger, post, fence, or any object, then bearing down till the neck is changed from its natural shape will suck in air with a peculiar sound scmewhat resembling a hiccough. A confirmed cribber will often such in air till he is so full that he cannot hold any more. A cribber is usually thin in flesh, as the habit interferes with digestion. The habit is usually acquired during prolonged idleness in the stable. Highly bred, nervous animals are more likely than others to develop the habit. TO CURE A CRIBBER.

As is the case with most habits cribbing is difficult to cure. The horse should be tied in a stall from which the manger has been removed. He should get his hay from an iron rack high up in one corner and his oats from the floor, or he might be tied in a wide stall with a strap from each side to keep his head in the centre and get all his food from the flocr. A strap buckled tightly around the throat will sometimes stop the habit. As a last resort the confirmed cribber may have to wear a wire muzzle

at all times except when eating. "Weaving" consists of a motion of the head. neck and body from side to side like the shuttle of the weaver passing through the web-hence the name. It indicates an impatient and irritable temperament and a dislike of the confinement of the stable. A horse confirmed in this habit will keep up a monotonuous see-saw for hours together. The only treatment is to tie the animal up so tight, except while eating, that he cannot do it.

STUMBLING IS INCURABLE.

Stumpting is often called a minor vice or habit, but it is often a really serious and dangerous one, more especially in the case of the saddle horse. Anyone accustemed to riding on horseback knows what a great objection it is in a horse for saddle work. This weakness can often be detected by examining the knees. They will often be found with patches of the hair knocked off by coming in centact with the ground. This cendition is known to horsemen as "broken knees." Very little can be done to overcome this as it is often due to faulty conformation.

The Chester Berkshire Cross .- I have always found my greatest success and the quickes most profitable way to get hogs on the market to get a cross between the Chester White an Berkshire. With such a cross I have put hog the market when five months old weighing 20 pounds. These were sold at \$7.50, thus each pu realized \$15.00, making a splendid return. Thes hogs were kept on grass, milk and chopped bar ley, oats, peas and corn mixed.—Geo. M. James Middlesex Co., Ont.

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tion as no hesit improver Their co slight in than a p small ore commerci together improven cowners d producers concentra tain distr favored d EXAMPLE The fac

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Orchard Notes Applying to Ontario

A. McNeill, Chief, Fruit Division, Ottawa. For several years I have had an opportunity of visiting some part of Ontario and noting the condition of the orchards, and have also been favored with a large correspondence from all parts of the province. Judging from my own observation as well as from my correspondence, I have no hesitation in saying that there is a slight improvement in the condition of the old orchards. Their condition, however, is such still that the slight improvement need scarcely receive more than a passing notice. I am speaking now of the small orchards, or the farm orchards, not of the commercial orchards where the conditions are altogether different. There has been a very large improvement in the large orchards, where the cowners depend upon their orchards as revenueproducers. In fact there is a tendency towards concentrating the apple growing industry in cer-

tain districts, and these are not always the most

favored districts. EXAMPLE VS PRECEPT.

The fact is that example appears to have more to do with the mattter of orchard improvement than precept; and where two or three or more are making a success of orchards-and this can only be done by taking proper care of the orchard-then we find the thing contagious and that neighborhood will more or less generally practise better methods of orchard culture. Thus it would be seen that the extension of orcharding depends more upon individuals than upon the adaptability of the soil and climate, though Ontarie is so happily situated that a fair amount of success is always certain in any part of it.

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As a general thing, farmers are poor bookkeepers and very few of them know with any degree of accuracy how much work they put upon their orchards and the value of that work, and what revenue is produced from them. They are equally ignorant, in most cases, of the details with reference to other crops, and usually grow what they are in the habit of growing, what their neighbors are growing or what their fathers grew, Lut only in a very few cases have I noted that the crop grown was determined by its profit.

IS ORCHARDING PROFITABLE

Orcharding is not considered specially profitable by the average farmer out of the regular fruit districts, where there are no cc-operative associations. That it is not as profitable in these cases as where the people are making a business of fruit growing may be perfectly true, but even with the irregular and poor crops that the average farmer gets from his small, neglected orchard, it is easy to show that, considering the amount of money spent upon it and the revenue derived from it, it is easily the most profitable part of the farm, though of course never as profitable as it might be made.

The men who are planting crchards most freely are the younger men, those who for some reason or other have got away from home, and have noted what is going on in other sections. Few of the older men are planting new orchards, and this disclination to plant is not because they have no hope of reaping the pecuniary rewards, but rather because they do not think the business profitable, or they feel that there are some secrets in connection with the business that they could not master, or, it may be, from a general ignorance of the whole subject.

THE VALUE OF ORCHARDS.

Little definite information can be given as to the average price of bearing orchards per acre. Usually there is no such thing as selling the orchard separate from the rest of the farm, but a good orchard on a place will generally increase the value of it, but hew much more no one can say. In the fruit growing districts, where orchards as such change hands, the price also varies greatly, but perhaps \$200 to \$300 as acre might be taken as the average price. This is far below its intrinsic value, and many shrewd men are buying up orchards at this price, and I would hazard the opinion that in a few years bearing orchards will not sell for less than \$400 an acre and probably \$500. Even this is below their revenue producing value, but an allowance must be made for the fact that they have full value only when owned by



The Farm Machinery Ready for Haying and Harvesting The illustration was taken on the prize winning farm owned by Mr. A. McLenau, Glengarry Co., Ont. Part of his full line of up-to-date farm machinery is

men who understand the care of orchards.

My advice to every farmer in the apple districts of Ontario is to plant at least 10 acres of orchard. The apple bearing area of Canada is small compared with the whole of the Dominion, and orcharding in Ontario must become a much more important industry than it is at present.

Make the Babcock Test Compulsory

G. W. Fortier, Carleton Co., Ont.

Two years ago a meeting was called of the patrons of cur cheese factory and we decided to pay for milk on the butter fat plus two basis. Our idea in establishing this system of paying for milk was that better milk would be secured and that adulteration, which had been practiced to some extent, would be stamped out.

We lest patronage from the very first. The first season we did not receive one-half the usual quantity of milk. There are always some farmers who are never satisfied. Generally these are the men who are not anxious to supply good milk. These farmers all tock their milk to neighboring factories. These factories seemed glad to receive their product, although I do not know how they made money receiving such milk as they did, unless they cut their patrons on the weight.

LEGISLATION NEEDED. The only way which I can see to get around

these difficulties is to either oblige factorymen to refuse milk from the patrons of some other factory or to make a law whereby every factory is compelled to pay by test. Our factory is kept

in first-class condition and well drained. We have a cool curing room as well. In spite of this we were losing patrons to factories where an inferior product was manufactured.

Last year, we had better success paying by the test, as we received the patrenage of most of the intelligent farmers. In my opinion, all intelligent patrons should insist that their milk be paid for according to test. Last year, we lost just one patron but we did not regret that as he had been bringing in very poor milk. He is at present, sending his milk to a factory where the pooling system is followed and the patrons of that factory who send in good milk are helping to pay for his poor stuff.

Summer Treatment for Cows G. H. Blair, Carleton Co., Ont.

Pastures provide a fodder that is best suitable for milk production. But in the hot menths of July and August, when the grass gets parched and scanty, the pasture must be augmented by the feeding of some green food to the cows. The most balanced, cheapest, and easiest handled green crop that can be grown is peas and oats, which should have been sewn at such a time that it is nearly matured at the time when it is needed for the cattle. If green clover can be procured at this period it is extremely valuable for this purpose. Many farmers make a practice of keeping ensilage for summer feeding, which also gives good satisfaction.

Green corn does not give as much satisfaction as a supplemental food owing to its immaturity at this time of the year and to its wide nutritive ratio, but if a little bran or oats were fed in connection with it green corn would do very well as a bulky green fcod, though I have never seen it fed in this way. The practice of soiling cows exclusively is as yet very little followed in Canada, but the time will come when the land will be too valuable for pasture and cows will be stable fed in summer as well as in

In the case of any pasture, there should be an abundance of shade and running or spring water, and if the grass is at all good the cows will give good yields with little or no additional food as pasture grass forms a most perfectly balanced ration for dairy cows. We have had little experience in feeding grain to cows in summer, but I believe that a little bran or oats twice a day would in many cases give good results, particularly if green corn be fed as a supplement to the pasture.

In the hot fly time it is good practise to spray the cows three times a week with a mixture of one part whale oil or soap and four parts coal oil, a mixture of which we have found very satisfactory as a preventive.

Corn Cultivators.-Now that the season for scufflers is with us, the benefits of the two-horse corn cultivator should not be lost sight of. Is there any work on the farm more wearisome or more dreaded than trudging day in and day out after the old one-horse cultivator and then coming in wearily at night with feet sore and tired from trudging through the soft earth? 'The experience is quite different when the two-horse cultivator is used; one feels as fresh after a day's cultivating with the sulky as though he had been for a drive through the country, in which case there need be no dread of the evening's chores. After a day of such work one can thoroughly enjoy his tea and afterwards the daily newspaper and evening recreation .- E. Terrill, Northumberland Co., Ont.

Great care and judgment should be exercised in securing the hay crop. Many of the ills and the poor condition of stock are traceable to the inferior quality of the bulky feed provided for them. -N. J. Kuneman, M. A. C., Winnipeg, Man.

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FINE TEMISKAMING FARMS

The Third Letter from Farm and Dairy's Editorial Representative in New Ontario

LISKEARD, NEW ONTARIO, July 20-The visitor from the South need never fear not receiving a hearty welcome from the North. It receives him with open arms and welcomes him with an unquestioning good fellowship. It takes him into its confidence and tells

struggles and hardships, its hopes and ambitions.

One of the first to welcome the visitor is Mr. E. F. Stevenson, editor of the "New Liskeard Speaker." But Mr. Stevenson is more than an editor; he is just as enthusiastic over his farm on the East Road about a Farther along this road your corre his farm on the East Road about a mile frem Liskeard as any farmer in Temiskaming. "This is Farmer Stev-ers and Mr. Reynolds working on the erson, not foldro Stevenson," he told: road. They have not as large clear-me one morning last week, and then led me off to his new Larn. It is a less enthusiastic about the country, plank frame, cedar foundation one, | "I paid \$200 for my farm," one said, equipped with the lat-

approved machin-Mr. Stevensen's farm fronts on beauti-ful Lake Temiskaming and his house is more than a couple undred yards from the

"I came here six years ago," said Mr. John McFarlane," who allo lives out on the Sast Road "and paid \$900 for the 160 ac-res with ne clearing. Now I have 80 acres cleared and last

year 1 had 90 tons of hay and 2,000 bushels of grain. This year I will have bushels of grain. This year I will between 1.5 and 200 tons of hay.

Mr. McFarlane's farm is among the best in Temiskaming. In 1908 he built a timber frame barn, 48 feet by 68 feet. Like Mr. Stevenson's, it has a cedar block foundation. All the lumber used was taken cff his own place—another example of the value

bush farm Though he has cleared 80 acres in six years, Mr. McFarlane has not spent a single dollar that he did not rst make out of the lumber he took ut. "I would cut the trees and sell

ever \$15,000

REFUSED \$10,000. Next to Mr. McFar-lane's farm is Mr. John Shaw's. Again the visitor see a magnificent farm with a new, well equipped barn. Asked what he valued his place at, "I hardly know," he replied, "but I refused \$10,000. You SYNDESIS OF CANADIAN NORTH-WEST LASIN ERGULATIONS.

A family, or any male over 13 years old, may homested a quarter section of available Dominion hand in Maniphea. The section of available Dominion hand in Maniphea in appear in person at the Dominion Land Agency, or Sub-Agency, for the Distriction, and the section of available of the section of available of intending homesteder.

The section of the last of the section of a section of intending homesteder of intending homesteder. The section of the last of the section of th see we don't like to part with our farms in this country." This is characteristic of all Northerners. Examples are frequent of men having made fortunes up here and gone Scuthern Ontario spend them, but before a twelve-month they were back in Temiskaming. There is something infatuating in the clear sky, the fresh air and the bright sun,

This section has the cream of the This section has the cream of the Temiskaming farms. Here your cor-respondent also called on Mr. A. S. McChesney and Mr. John McChesney. Both have fine farms. The fermer has Both have fine farms. The fermer has built a new cement block house, three stories high. It is on a hill and com-mands a rare view of the surrounding country, in the foreground the regular rolling farms with their acres of war-ing grain, in the distance Lake Temis-

kaming with Liskeard and Haileybury

kaming with Liskeard and Haileybury mestling on its shore. Another successful farmer on this read is Mr. John Richards. The writer found him with his four sons in a hay field of 50 or 60 acres. The hay is exceptionally heavy this year. "Just like cutting peas," remarked one of the boys as he got off the mower and pulled the hay away from the blade—an operation that was repeated two or three times in cutting one swath. Mr. Richards refused \$13,000

A Settler's First Crop

and after bringing my wife and children in had only \$10 left." Practically all the farmers in the clay belt had nothing left after reaching their land, but now the majority have a neat sum laid up against a rainy day and a farm whose value is increasing very rapidly. Of course, these are for scmetime

CONTENTMENT REIGNS

A very noticeable characteristic of the Temiskaming farmer is that no matter what his circumstances he is matter what his circumstances he is invariably happy. Perhaps it is his optimism for the future, for here they live in the future; perhaps it is the healthy invigorating climate. I think the lumber, then use the money in healthy invigorating climate. I think clearing the land," he explained, it is the knowledge that he owns a Phe farm is now worth something home, that to him is second to none in this fair and prospercus Dominion

tion of the Great Clay Belt looks at its test. The grain—oats, wheat, and barley show every indication of being a record crop. The hay is invariably some places the farmers say it goes four tons to the acre. On the average it goes over two and up here hay sells for \$20 a ton.

Many of the settlers are using new potatoes and the other vegetables are just as well advanced.

A GOOD SUGGESTION.
As I mentioned in my letter last week, a farmers' excursion from old Ontario was suggested to me a short time ago. Since then, several have mentioned it. All agree that it would be a fine thing, both for New Ontario and for cld. To really appreciate Temiskaming one must see it for him-self.—Colin W Lees.

Winnipeg Exhibition

The array of live stock at Winnipeg's ten day summer fair has before been equalled in the West. leading classes of live stock were exceedingly well represented. The stable accommodation, especially for the

ceedingly well represented. The stable accommodation, especially for the horses, was altogether too small. Seme of the cattle were housed in a tent, while others tied to a fence, stool in the blazing sun.

Much admiration was expressed by moted breeders from the east and from the west, for the class of live stock exhibited, particularly cattle. H. G. Clark of Georgetown, Ont., who had the task of judging the dairy section, said that although Ontario was noted for its dairy cattle. The west was fast for its dairy cattle, the west was fast coming to the front and would in the future eclipse the east and rank among the dairy countries of the world. At the time of going to press the report of the awards had not yet come to hand. These will be given in Farm

hand. These will be given in Farm and Dairy next week.

Well known western breeders and exhibitors of Clydesdales such as Jno. Graham, R. H. Taber, Colquboun, and Beattie, P. M. Bredt & Son, J. C. M. Johns & Traynor Bros., Jas. Burnett, McKirdy Bros., S. Bensen and several others, with a few fine animals, contested for places with 18 representatives shown by Graham Bros., of Claramont. also a choice lot exhibited

Claremont, also a choice lot exhibited by T. H. Hassard, of Markham, Ont. The exhibit of swine more than surpassed the sanguine expectations of the judge, Mr. Clark, of Georgetown. He stated that while shows in the east could claim a more extensive exhibit, the west was fully equal in regard to quality. Yorkshires made the strongest showing, Berkshires were also good and three exhibitors exhibited Poland

A special feature of the fair, the competition, was even more or than ever. Eighteen engines popular than ever.

popular than ever. Eighteen engines in all underwent the severe tests re-quired by the rules of the competition. Westerners who visited the fruit building at the exhibition were somewhat surprised to learn from the data what surprised to learn from the data displayed in connection with the On-tario fruit exhibit that 75 per cent. of all the fruit of Canada is preduced in Ontario, including 60 per cent. of the plums, 70 per cent. of the apples, 80 per cent. of the small fruits and pears, and 99 per cent. of the small runs ampears, and 99 per cent. of the peaches and grapes. Leading varieties of apples such as Northern Spies, Russets, Greenings, Ben Davis, Baldwins, Pipears, Pipe Greenings, Bon Davis, Daidwins, Pip-pins, Snows and Starks, kept over in cold storage, neatly packed in boxes, were displayed to advantage. Such fruits as cherries, currants and goose-beries in the exhibit, demenstrated that Ontario can produce these fruits to perfection and can also place them the western markets in prime contario in the exhibition of fruits .- H



A New Liskeard Farm Home

that unite to make New Ontario's the and that he is independent in a loyal healthiest climate in the whole Do-land free country.

and free country.

As a rule, the houses are well furnished and comfortable. Most of the Most of the farmers are married and have families farmers are married and have families—another reason for their happiness and contentment. [The man who wrote this is a bachelor.—Editor.] On seme roads the farmers have established rural telephone systems and before long telephones in the houses of Temiskaming will be the rule as it is the older parts about Liskeard. At the present time this small portage.

I like Farm and Dairy very much and would not like to be without it.— James Isbester, Peterborough Co.,

at the b at the t These pic frame res space ov from 65 grain. in at th means of

ley being 17 double four

of 100 t about 40 the cattle

The pl n this pa adjustable these the the gutter

Unusual reports of it that ere Such a re unwarrant

doubt as the crops a certain crop of h vested. M and in sto

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Gas pipe Repo

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it is an ex for the me good shew stances wh smut is re is perhaps

than Co., Ont.

stead monestead patent) and cutture acres extra. A homesteader who has chhausted his homestead right and cannot obtain a pre-emption, may enter for a purchased home-eart light and cannot obtain a pre-emption, may enter for a purchased home-acre. Daties—Must reside ask months in each of three years, cultivate fifty acres and erect a house worth \$500 the Interfer. Deputy of the Minister of the OREY, Deputy of the Minister of the William of this contract of the Contract of t B.—Unauthorized publication of this

A Modern Cow Stable

The stable illustrated on page three of this issue is described by the owner, Mr. A. W. Caton' as follows: "The wall is constructed of brick and terra cotta cutside and is plastered with cement. Stone piers, four feet thick at the base and tape mg to two feet at the top, support the framework. These piers are 17½ feet apart. The frame rests on an eight-foot wall. The space over the cattle accommodates from 65 to 75 tons of hay, besides grain. The hay and straw are taken in at the west end of the barn by means of slings.

"The floor over the cattle is a few seconds."

"The floor over the cattle is of matched lumber. The King system of ventilation is installed. The stable has ventilation is installed. The stable has gement floors throughout, the feed alley being raised about four inches. The stable is se lighted by means of 17 double windows, two feet six inches four feet that the sum may shine in every part of the stable sometime in every part of the stable sometime.

in every part of the stable sometime iduring the day.

"The silo as shown in the illustra- of the silo as shown in the illustra- of the silo as a freet and is five feet in the ground. It has a capacity of 100 tens. Our herd consists of drawn at the silo and the sil

Crops in general are fair, hay is light, grain and hoe crops are excel-lent.—H. R. Thompson, Lennox Cc.,

The hay crop is fairly good and will average two and one-half or three tons an acre. Grains are a little light and straw short.—H. Mains, Carleton Co.,

Hay is good, but grain will be short Hay is good, but grain will be short owing te the drought. Pastures have been good but are drying up now.— Geo. Parker, Frontena Co., Ont. The hav crop is extra good. Early grain will be a fair crop. Pastures dine.—J. D. Hennessey, Hastings Co., Opt.

Fall wheat is an Al crop. Spring grains are looking well. Roots are backward.—K. A. Johnsten, Peterboro

Crops are very good but pasture is poor owing to drought.—L. A. Thompson, Frontenac Co., Ont.

Crops are at a standstill and pasture

is burned out owing te lack of rain.—
O. J. Stewart, Lanark Co., Ont.
Corps are better than last year.
Corn is looking fine. Pastures are dried up. — Wm. Drew, Haldimand Corn is look dried up. — Co., Ont.

Hay crop was never better, and



Plan of an Up-to-date, Well Lighted, Well Ventilated Cow Stable

he plan is of the stable owned by A. W. Caton, which stable is illustrated on three of this issue, and is described in the article "A Modern Cow Stable" n this page

adjustable stanchions. By means of these the cows can be lined up with the gutter, short and long cows alike. Gas pipe is used for stalls between the cattle. The compact of the compact o

Unusual interest is centred in the reports of crops this year. Rumor has it that crops in the west are a failure. Such a report however, is altegether unwarranted, for while it is true in part, as applied to Southern Alberta, as applied to Southern Alberta, and a fair average crcp is expected. The weekly crop report, of the Canadian Northern Railroad, dated from Winnipeg, July 20th, admits that the situation throughout Southern Manitoba is very serious. Detailed reports from some other sections are in many cases hepeless, but in other parts again, notably in Northern Sciaticheway, and the sections are in many cases hepeless, but in other parts again, notably in Northern Sciaticheway, they bear out previous So skatchewan, they bear out previous reports to the effect that the crops are in excellent condition and promise a large yield.

While there is more or less room for

doubt as to the ultimate outcome of the crops in the West, good crops are a certainty in Ontario. The best a certainty in Ontario. The best crop of hay in years has been har-vested. Much of the fall wheat is cut and in stook, and with few exceptions and in stook, and with few exceptions it is an excellent crop. Spring grains, for the most part, are making a very good shewing and but for a few in-stances where an undue percentage of sunt is reported, yields will be well up to the average, although the straw is perhaps not as long as in some years. Extracts from Farm and Dairy corespondents followed to the consequence of the core production of the core of the core of the core

Crops are fair; in some cases better han last year.—P. O'Riley, Brant than

Creps are looking well considering the drought. Clover is an excellent crop. Oats are looking well. Pasture is poor.—G. H. Farestell, Hastings Ont.

Co., ont.

Clover is yielding about three tons an acre. Grain and corn look well.—

Eugene Fortus, Glengarry Co., ont.

All crops are fair except ccrn, which did not come up well.—Richard Wright, Frontenac Co., Ont.

Wright, Frontenac Co., Ont.
All field crops are great this year.
Pasture is good.—S. H. Pwiddy.
Hastings Co., Ont.
Crops will be better than first expected. Oats and barley are looking
fine. Pasture is short.—H. Bennett,
Oxirod Co., Ont.

Hay is good, grain is rather poor, pasture is poor.—N. Shillington, Haldimand Co., Ont.

A very heavy crop of hay; other crops looking well.—T. Brageau, Prescott Co., Ont.

Hay, rye, barley, oats and spring wheat are all good. Fall wheat is a little patchy.—P. J. Murphy, Lennex Co., Ont.

Oats, fall wheat and fall rye are a fair crop; barley is a little short. Pastures have been good.—A. Vanduzen, Prince Edward C., Ont.
Crops were never better. Some corn Crops were never better. Some corn is poor, due to bad seed and will only be a half crop.—Jas. Simms, Prescott

Co., Ont.

Crops are all good except peas.

Astures have been grand.—Geo. Ivey, fall and spring grains are looking

well.-R. S. Carter, Prince Edward Ont.

Crops are better than for three years ast.—W. C. Gunness, Leeds Co., Gunness. Leeds Co.,

Hay is an excellent crop. rops are very good. — A. Garralt, Prescott Co., Ont.

Crops are about equal to last year, except hay, which is censiderably better—J. W. Carter, Perth Co., Ont.
Hay is better than the average, as

are also corn and grain crops. Farmers will have more feed than their present stock will require.—I. J. Mc Intosh, Dundas Co., Ont.

*********** FARM MANAGEMENT

Double Cropping with Buckwheat

Will you kindly give me your valuable advice on the following subject: Being unable to procure manure with which to earlich the soil of pasture land on a sandy billside. It was the soil of the soil enrich the soil of pasture land on a sandy hillside, I was told to have it plowed, stream with wood ashes and sown with butkwheat, which, when in flower should be realled allowed to rot upon the ground and plowed in, after which colver and time-ethy should be sown. In flower and ready butken to some in flower and ready butken to some in flower and ready some to repent on the collection of 5 sowing butkenbard again, which would allow the clower and timothy to be put down early in September, and they claim

of sowing buckwheat again, which would allow the clover and timothy to be put down early in September, and they claim earlich the land doubly, with the double plowing and the two crops of buckwheat Others tell me that a second growth of buckwheat would be detrimental and col-torickwheat would be detrimental and col-tor me to have the plant of great objec-for me to have the plant of the plant of the more or less early next spring as 1 have other land for that purpose. I should like to do whatever would be conducive to in-

proving the land. What course had I better pursue?—J. T., Portneuf Co., Que. The treatment already given is about as good as could be devised for the upbuilding of the soil in question. I would suggest, however, that the buckwheat be turned under with a shallow furrow, say four inches deep, as soon as rolled or shortly after, then,

as soon as rolled or shortly after, then, the soil rolled again after turning the buckwheat under and harrowed. I would suggest that this year yeu either sow more buckwheat or else, some time in August, say about the middle, you sow fall rye at the rate of about one bushel an acre. Let this grow until the following spring, when grow intil the following spring, when the land should be again plowed and seeded down to timothy and clover with a thin seeding of oats, say one and one-half bushels an acre.

I would suggest that you apply at the time of seeding about 200 lbs. of land plaster, 100 lbs. nitrate of soda an acre. This should help the timothy and clover to make a start. Care and clover to make a start. Care should be taken during the first year under grass net to pasture to closely.

—J. H. G.

Rather Late for Millet

I have a piece of land off which I have cut some clover. Is it too late to sow some millet, or could you suggest some other crop that would be settiable for feeding dairy cows?—A. G., Buron Co. Out

The probabilities in favor of your zetting a crop of millet, sowing it at this date, are very small. However, this date, are very small. However, if you could not use rape to advantage, that is, if you had not enough dry cows or other dry stock to consume the rape that would likely be produced on such an area, it would probably be worth while making the trial. trial.

You might expect good returns from

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September 20th, 1910

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G. C. CREELMAN, President.

erop of grey stone turnips, if you ared to grow this variety. If the cared to grow this variety. If the season was favorable, of course, you might come out with a good crop of millet, since two months is long enough to give you a crop well worth harvesting.—J. H. G.

To Eradicate Bindweed

In some of my fields I notice two three large patches of bindweed. We a summer fallowing two of the fields, and the other is in mixed grain. Will the threshing be apt to throw any out in the straw stack? We do not know much about bindstack? We do not know much about office weed. We have plowed ours twice in one week's time. Will it be all right to sow those pieces to buckwheat along with the rest of the field. Can we get rid of it by any reasonable means, and which is st way? ere such a thing as wild cucum!

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G. A. GILLESPIE, PETERBORO, ONT.

and can it be got rid of easily? How? Kindly reply and oblige, and tell us the best way to handle bindweed, and if it will do any harm in the buckwheat?— A. S. Durham Co., Ont. Re bindweed, would say that the best treatment is to introduce a hoed crop into the field as soon as possible. Were cr. less of the soul is ossible.

More or less of the seed is sure to get into the straw as well as into the grain, and besides, the bindweed ripens quicker than the oats and other grain; thus a lot of it is shelled on the ground where it is growing, and

thus comes up again the next year.

The field you mention might very The neid you mention might very safely be sewn to buckwheat with a reasonable hope of destroying a lot of it that way. The safest way, however, as already stated is to get the field as soon as possible into a heed crop, and if you could plow and culti-vate in August previous to growing roots or cern, this combination of summer fallow and hoed crop would be almost sure to entirely rid the field the weed.

I have heard the name wild cucum-ber mentioned but do not know any weed under that name. There is a cultivated vine grown mere or less widely which is known by that name, but I have never heard this vine being considered as a weed .- J. H. G

To Farm on Light Land

Would you be kind enough to tell me that kind of crops would be best to grow on light sandy ground? The top soil, being about three inches in depth, is composed of a light turfy nature, while the under is sand more or less.

It is almost impossible to plow the land

at is almost impossible to plow the land without turning the sand to the top, and appears to want quite a bit of manure to get any kind of a crop of the land? Would fruit trees do well on the land? Would fruit trees do well on the land? I have two hundred acres in Muskoka, and tried farming two years ago but it proved a failure, partly on account of the dry season and of the nature of the land. Gry season and of the nature of the land, only find out what would be the best way to handle the land, and what would be handle the land, and what would be most encouraging branch of farming

o take up.

I intend, if possible, to go into poultry nostly, as I like the work, and have kept them quite a while on a small scale.
Would it be possible to grow outs and spring wheat as well as grain necessary for poultry food?—T. W., Toronto, Ont.

In the first place such land as you describe is suited for dairy farming, pork production, poultry and fruit. The latter will, of course, be influenced very materially by local climatic con-

very materially by local climatic conditions, or by slopes, exposures, etc.

I would advise you to select the best of your land and to follow thereon a three-year-rotation: First year, corn; second year, oats seeded down with timothy and clover; third year, elevents. Edinor the aloves he with corn. hay. Follow the clover hay with corn again applying your manure on this crop, and if you wish to grow roots and no value of the cortain extent, you should put them in the same field. Corn should always be followed by grain seeded down to clover, a liberal seeding of clover, asy 10 to 12 lbs. an acre, which should again be followed by corn, which should again be followed by corn.

Keep as many dairy cattle as you

all good ones, that is cows that will soned. give you a good return for your in-subject

I would suggest for your investment in money and labor.

I would suggest for your district of Muskoka good grade Ayrshires and a pure-bred Ayrshire bull.

If you have only 10 acres of decently

If you have only 10 acres of decently fertile land on your farm then start with the 10 acres, and gradually bring other areas as convenient to the build other areas as convenient to the build-ings as possible inte a fair state of fertility by pasturing, then plowing and sowing such crops as buckwheat and rye to be turned under as green manure. In this way you will grad-ually get a certain amount of humus in the sail, which will permit you to corn, etc., as time the property of the corn, etc., as time to the corn, of the corn, o

get decent results corn, etc., as indicated in the retation described above. For swine, I would suggest your growing each year a small amount of roots, mangels and rape; the roots for winter feeding, the rape for summer

soiling.

I would suggest that you build a silo as soon as possible after you get into the farm. In fact, if you really intend farming, I would suggest that you start right off by building a silo, since on such land as you describe, the silo is practically the whole thing.

J. H. G.

HORTICULTURE K------

Fruit Prospects in Nova Scotia P. L. Morse, Kings County, N.S.

P. L. Morse, Kings County, N.S.
The fruit crop is new far enough
advanced to make a prediction as to,
the quantity and quality of the crop
which will be harvested in the Annapolis Valley this year. Last year,
last year,
last year, last year,
age for the last seven year he been
500,000 barrels. This year, 200,000
barrels is a generous estimate as there barrels is a generous estimate as there will not be more than one-third of a will not be more than one-third of a crop. Many large growers say that they will not get more than one-tenth of a crop

was a lot of speculation at There was a lot of speculation at the beginning of the season as to the cause of this serious shortage. Many thought that the bud moth had something to do with it, but this cannot be the case. The cpinion at present is that the severe freeze of April 98th killed the buds as they were fully two weeks ahead of the usual development.

at that date.

The quality of the crop promises to be good although the weather has not been ideal. However, as spraying is almost universal, we can almost always count are supported by the country of the crop promises always are constructed. count on good quality fruit. The variety of the trees never looked better and all indication point to a lumper crop next year.

Cover Crops for the Crchard

S. H. Neville, Oxford Co., Ont.

In an orchard which has had clean In an orenard which has had clean cultivation in the early part of the summer the trees will be making rapid and healthy growth. Towards the end of July or the first of August, it is of July or the Brist of August, it is ing out the advisable to sow a cover crop in the The above orchard. A cover crop has a benefor thinning ficial influence on both the soil and July issue, the trees. The cover crop prevents correspondent the trees. The cover crop prevents correspondent to the trees. The cover crop prevents correspondent to the trees of the trees o holds the rains or snews until they have time to soak into the land, dries have time to soak into the land, dries ont the soil in spring, and sometimes serves as a protection from frost, should be thinned so that when marked it improves the hearical conditions of the soils in that it adds humus, should be thinned so that when marked to the soils in that it adds humus, another. Intelligent spraying and the crop is leguminous, will collect a should be thinned so that when marked here or the soil in the soil is should be the straight another plant food available and, if produces from the air. A cover crop slow keeps down the weeds.

An orehard which is well cultivated right through into the late fall will curl, and the text of the new Destructive Insects and Pesta Act also appear and keep up this growth so late in in the July issue. A copy may be had the fall that the new wood has not a on application to the above address.

ssibly can, but be sure that they are chance to harden and become seasoned. Hence such trees are more subject to winter killing than those in an orchard where a cover crop has been sown. The cover crop appro-priates much of the food in the soil for its own use, thus checking the excessive wood growth on the trees and giving the wood a chance to harden

Three of our most common cover crops are buckwheat, vetches, and rops are buckwheat, vetches, and clover. Buckwheat affords a good heavy cover, and may or may not be harvested. Vetches and clover have the advantage over buckwheat in that

the advantage over buckwheat in that they are leguminous plants, and add to the supply of nitrogen in the soil. Cover crops, if they have made good growth, will interfere with the har-vesting of the fruit crop in the fall. When such is the case, they may be cut off with the mower and the crop left on the ground to rot or they may be smoothed down with a plank drag. To remove the crep from the crehard altogether; its remove, a great deal altogether is to remove a great deal of fertility, which would otherwise be available for the trees the following

Blackleg of Potatoes

Our potatoes have a peculiar disease which differs from ordinary potato blight. The stock turns black at the bottom and follows along up until the leaves first wift, then turn yellow and die. What is this disease, and the treatment for it?—C. T. M., Yal-Carlboc Co. B. C. It is impossible to diagnose a disease

from such a vague description. There is a general similarity between the

from such a vague description. There is a general similarity between the symptoms mentioned and those of a potato disease known as black leg. The disease is well distributed over North America, but has not been a sericus cause of loss. It is usually worse on wet soils.

The treatment here recommended is entirely preventive. Select seed, if possible. from fields on which the disease has not appeared. Diseard for seed purposes, all tubers which have wounds, cracks or decayed areas. Disinfect all seed tubers with correstive sublimate before cutting. Spreading the seed tubers cut in thin layers in a dry place exposed to the direct rays of the sun for several days would be an excellent supplementary practice, and tend to hasten germination as well.—J. W. Easthan, Department of Botany, O.A.C., Guelph, Ont.

Thinning Fruit

It is the production of seed which saps the vitality from the fruit tree. Consequently if trees are allowed to overbear, exhaustion ensues, and a year is needed to recuperate. This is year is needed to recuperate. This is the reason why most trees only bear every other year. If, however, thin-ning is performed judiciously, the tree, freed from the labor of so much seed production, turns its attention to perfecting the fruit left on it; hence perfecting the fruit left on it; hence fruit and fewer culls. Then too, if fruits and fewer culls. Then too, if fruits touch one another on the tree the spray cannot find access, and as reuts touch one another on the tree the spray cannot find access, and as at the point of contact the skin is thinner insects which feed on the fruit find easy access, generally spoiling both the fruits where they touch.

The above are some of the reasons for this property of the contact of

The above are some of the reasons for thinning fruit as given in the July issue, by the British Columbia correspondent of the Canadian Horticulturist, a monthly fruit magazine, published at Peterboro, Ont. As a guide when thinning fruit, this correspondent gives the rule that it should be thinned so that when matured no two fruits shall touch one another. Intelligent spraying and nurning are also essential to the nor-

***** A Clas

Resease

July 2

If we a ket, either sential th know who is for peul dopt some This is the At a re drew up a ducts for t ed at. Eventshould below F. C. Elfe invites cri garding the All poultry classification

Poultry i ducks, gee further cla weight. A for each c must confor Chickens-to (1) pulle are under are under cockerels th hard spur f They are fu into broilers Broiler :to three lbs. Roaster :s. and upv

Classificars, fowl a

leg, includir Capons:— ized when f showing very Slips:—Bir ized and so nerally cos Ducks :- D ducklings an Ducklings: their first r to 12 weeks

hens of any Cock birds

hard spurs

three to five Ducks :-- A der the term Geese :—Di goslings and Gosling:—(their first me 12 weeks old to 12 lbs. Geese :—(a)
(b)
Turkeys :—

old hen turk Young hen Toms, under weights; old Guineas :-- 1

Pigeons :-- I igeons. Squabs :—P aving the r eeks old. Pigeons :-- E he nest

This grading owl and capo All the fore re graded bef andard is se lasses. There selects, No. 1.
All the bird ormly as to s

CANADIAN NATIONAL EXHIBITION

August 27th - 1910 - September 12th **\$50,000** In Premiums

\$40,000 in Premiums for Products of the Farm and Dairy

For Prize List and Information write J. O. ORR, Manager, City Hall, Toronto All Entries Close August 15th

****************** POULTRY YARD

A Classification of Poultry Products

If we are to develop a large mar-ket, either home or foreign, it is es-sential that our customers should know what our customers should know what they are buying. The only way in which this can be done is for peultry men to get together and is for petitry men to get together and adopt some uniform system of grading. This is the object of the Poultry Pro-ducers' Association of Canada.

At a recent meeting, this society drew up a classification of poultry pro-ducts for the use of its members. The universal adoption of this plan is aim-ed at. Everyone interested in poultry should belong to this society. Prof. F. C. Elferd, of Macdonald College, invites criticism and suggestions re-garding the following classification. All poultry keepers should give this classification careful study.

DRESSED POULTRY Classification and grading for roast-

ers, fowl and capons:
Poultry is first classified into chick-ens, fowl, cock birds, capons, slips, ducks, geese, turkeys, guineas and pigeons, and when packed, there is a pigeons, and when packed, there is a further classification as to size and weight. A standard of grading is set for each class and all birds packed must conform to that standard. Chickens—The term chicken applies to (1) pullets that have not laid and are under seven menths of age, (2)

are under seven menths of age. (2) cockerels that have not developed a hard spur firmly attached to the leg. They are further divided as to weight into broilers and roasters.

Broiler:—Usually weighs from one to the N.

to three lbs.
Roaster:—Usually weighs from the

rowl:—The term fowl applies to hens cf any age. Cock birds:—All male birds having hard spurs firmly attached to the leg, including mature birds, without reference to age.

reference to age.

Capons.—Birds successfully caponized when from six to 12 weeks old showing very little coul. and no spurs.

Slips:—Birds not successfully caponized and so showing cemb, spurs and generally carser than capons.

Ducks:—Divided into two classes.

Ducks :- Divided into two classes,

ducklings and ducks.
Ducklings:—Ducks marketed before their first molt, usually from seven to 12 weeks old and weighing from

three to five pounds each.

Ducks:—All ducks not included un-

der the term duckling. Geese:—Divided into two classes,

goslings and geese.
Gosling:—Geese marketed before their first molt, usually from seven to 12 weeks old and weighing from seven to 12 lbs.

Geese:—(a) Under 10 lbs.
(b) Over 10 lbs.
Turkeys:—Divided into young and old hen turkeys and young and cld

Young hens:—All weights; young Toms, under 12 lbs.; old hens, all weights; old Toms, all weights. Guineas:—Divided into young and

Pigeons:-Divided into squabs and

Squabs:—Pigeons up to the time of eaving the nest, usually about four reeks old.

package, a uniform weight to mean-birds that do not vary more than one

b. in weight.
Birds that have Leen sick or Birds that have Leon sick or show any indication of disease, birds that have food in the crop, that have de-cidedly crooked breast bones, that have blood or other dirt upon their bodies, heads or feet shall not be in-cluded in these grades. All birds must be dry picked, reast-

ers and fowl clean except around the neck. Capons should be dressed capon style. By that is meant the style that style. By that is meant the style that has become standard and which re-quires that the feathers be allowed to quires that the feathers be allowed to remain on a considerable portion of the bird. Leave the feathers on the upper half of the neck. Pick the breast clean, pick around the vent, and up to the large tall feathers, and up to the large tall feathers, all three picks the pick the upper part of the first pinck the upper part of the first two joints, including the of the last two joints, including the of the last two joints, including the long wing feathers or flights. Leave the saddle feathers on the back to within twe and one-half or three inches of the tail.

inches of the tail.

Cooling should be done gradually, but thoreughly before packing, not dipped in water. All clases should be put on the market undrawn, having head and feet on.

Packages must be distinctly marked,



Embden Geese

The goose is a profitable consumer of bye-products, such as might otherwise go-to waste on the farm. A flock of geese will live through the summer on posture.

showing the class, the grade, the number, the average weight and the gross, tare and net weight they contain. See suggested illustration:

GRADED DRESSED POULTRY.

Put Up By The
POULTRY PRODUCERS' ASSOCIATION OF CANADA
Class... Grade... No... Av. Wt...

Selects:—To consist of specially fattened birds; extra well fleshed and of superior finish and appearance; un-broken skin, without blen ish, straight broken skin, without blemish, straight breast bone, and neatly packed in packages that hold one dozen birds. each package shall include birds of a uniform size and color of flesh and

legs. No. 1:—To censist of well fleshed birds of neat appearance, but lacking the uniform finish of selects. Packed in neat boxes holding one dozen birds, of uniform size and weight, No. 2:—To consist of fairly fleshed birds, packed in neat bexes holding long dozen.

one dozen .

one dozen .

Common :—To consist of any birds, not conforming to the requirements of the above three grades, but must not be packed in boxes similar to the other

PEGOS.—Birds after they have left the mest,

GRADING.

This grading applies only to roasters, own and capons.

All the foregoing classes of poultry are graded before being packed, and a hand and is set which applies to these hasses. There are four grades, viz.—is elects, No. 1, No. 2 and common.

All the birds must be packed uniformly as to size and weights in each sort of the size of th

As the age continues, the air space enlarges and the yolk becomes visible. Rough-shelled and abnormal eggs should never be shipped.

Though some markets may call for several grades of eggs, as a general rule, there is no necessity for many grades. What the best trade demands is freshness, uniformity in packing and regularity in supply.

The Goose on the Farm

J. I. Brown, Hochetaga Co., Ont.
The goose is distinctly a farmer's bird. To raise them successfully year after year, a sufficient pasture must be at their disposal. A small flock may be kept anywhere and may even find their daily where and may even may be kept anywhere and may even find their daily green ration on the highways, but a larger flock of them would not be desired where the home acres are but few. Geese turn grass into greenbacks. They are close grazers, and as they bit closer than the cow will leave none for the cattle where kent in large general numbers to where kept in large enough numbers to hold the growth of the grass in check; this may have been the origin of the old saying, that geese spoil pastures.

As a matter of fact, they do not.

Their dung is not a poison for vegetation.

One gander of the heavier breeds is One gander of the neaver breeds a able to take care of two geese and as they begin to lay early in the spring and are a breed that avoid excitement or changes, the mating should be made during the previous fall. It is folly to avenet success from a gander mated to expect success from a gander mated to a strange flock in the spring.

Some Differences In Marketing

Prof. F. C. Elford, Macdonald College.
Eggs of first-class quality, marketed in an attractive way, will always find a ready market at a fancy price.

I enclose my renewal subscription to Farm and Dairy, which is getting better all the time.—E. A. McKim, Grenville County, Ont.

and the relative. The relative value is the one which brings the high price and greatest profits. Eggs dumped in a basket and sold to the first buyer that comes along may be just as valu-able as those put up in an attractive wooden case with card board sections wooden case with card board sections and excelsior above and below, but they will not bring half the price. Eggs put up, as just described, by Macdonald College, brought 70 cents a dozen when the market price was

35 cents for the ordinary run.

There is another very important factor that adds to the relative value of eggs and that is the quantity in which they are delivered. When a poultry man can put up eggs in large quan-tities and of first quality there will be no trouble about getting a sub-stantial advance over market prices.

Anyone can produce the eggs of uality when reasonable care is taken the co-operative egg circles as have been described before in these columns offer the chance to market eggs in

quantity.

An instance of a successful egg circle is to be found near Montreal. It
supplies a fancy trade in that city.
On an average they receive 25 cents
a dozen more in winter and 10 to 15
cents a dozen more in summer than
the current market price.

the current market price.

Producers should get together and form egg circles in each locality. Too form egg circles in each locality. Too great results should not be expected at first for we must prove that we have the goods before we will get the price. Once we have the reputation and prove that we can deliver the goods we are sure to get the advance in price. price.



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AND RURAL HOME

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5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's issue. 6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

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FARM AND DAIRY OUR PROTECTIVE POLICY

FARM AND DAIRY PETERBORO, ONT.

ONE BREED OF POULTRY

The best results will never be secured from poultry on any farm until themselves as to whether it was proper one breed only is kept by itself on that farm. The mixing of breeds, or even keeping two breeds separate on the same farm, will never permit of breeds require the same attention, the same feed, or the same surroundings. The conditions that are suitable for one breed are often unsuited for another

Pullets should always be kept separate from year-old hens no matter what the breed. Pullets are not fully matured until after they have been laying for a considerable time. Therefore, they can stand more feed and less exercise without stopping egg production and afterwards becoming too fat. Year-olds must work and work well for everything they get if they are to be kept in laying condition. Over feeding year-olds results in their becoming too fat, laying soft-shelled eggs and developing the habit of eating them. Prevention is much better an egg eater, the only remedy is to on sample. cut her head cff. Attention to these

of success.

AN EXAMPLE WORTH FOLLOWING

Owing to the spread of local option in Western Ontario, it is possible to travel over 100 miles from Woodbridge to Wiarton without being able to purchase intoxicating liquor. On the Credit Valley line, there is not a license left between Streetsville and Markdale, a distance of 80 miles. The same is true of the Beeton and Hamilton line, where no licenses are left between Meaford and Georgetown, a distance of 85 miles.

Within these areas are located some of the finest agricultural lands in the province. Hotels are not wanting. The farmers in these sections have found that the open bar works nothing but evil wherever it exists and they have abolished it. Nothing but benefit has resulted to themselves and to their sections. Their example shows that farmers elsewhere have nothing to fear from following their lead.

CHEAP FOODS TO ALL PEOPLE

The science of plant and animal preeding has made wenderful strides in recent years. Enough is already known that were it applied in the improvement of plants and animals, it would enable the world to add 10 per cent to its food products at very little cost. Such a practical application of the principles of scientific breeding would materially reduce the expense of living. The need of the present is that methods be worked out for utilizing the new knowledge already existing and that which promises rapidly to come, and that these methods be applied on hundreds of thousands of farms throughout the

The work of the plant breeder unfolds larger and larger in scope with every year. To realize the rapidity of the development of scientific plant breeding, one needs only to learn of the United States Department of Agriculture were debating ampngst

the term plant breeding in milletins. It was only a few arlier when such an intrepid hartwulturist as Prof. J. S. Budd, of the best results being realized. There lowa, was giving inspiration to the are several reasons for this. No two first classes taught plant breeding in the State Colleges of Agriculture. Now there is no more higher accredited scientific subject in agricultural colleges than the subject of plant breeding.

The influence of the science has spread far and beyond the colleges. Farmers are learning that even everyday crops like alfalfa and clover, as well as wheat and apples, can be so bred that they will produce larger yields preponderate in certain nutritive elements, show higher color, form, keeping quality, resistance to disease, than do the common types which were supposed to be all efficient. The breeders of bacteria are giving cheese makers pure cultures of new varieties of bacteria which produces cleanly cheese of the soft types which run than cure for once a hen gets to be uniform and can safely be purchased

Formerly much of the effective

and other similar points is the price breeding of plants was with less important, mainly ornamental species, fruits and vegetables. Now, however, the grower, economist, scientist and the breeder all see that the large problems concern the improvement of the great staple crops which feed the nations and which give us our balance of trade. By adding 10 per cent. to the heredity yielding quality of the corn seed in the United States, the crop would be increased by more than a hundred million dollars.

Until recent years, the principles of the science as relating to animal breeding were aplied to plants. Now, however, the work with plants has progressed to a point much beyond what was formerly known of animal breeding and the knowledge gained is applicable to animal breeding. It is apboth plants and of animals is taking farm sections of Canada. a place in national economics. Every encouragement should be given experiment stations and the various organizations which are responsible for pushing the work of introducing breeding, testing and distributing seeds and plants which will produce larger crops and eventually will supply cheaper foods to all people.

MAINTAIN THE MILK FLOW

It is little wonder that a low record of milk production is the rule with so many dairy cows when the kind of pasture upon which they are obliged to subsist is known. A dairy cow cannot be expected to forage for provender as can young stock, or herses, and at the same time yield milk in quantity. Mr. E. Mallory, writing elsewhere in this issue of his experience, puts the matter very clearly on this point.

The prevailing prices of dairy products are such as to warrant considerable expenditure for time and feed in order that the milk flow may be maintained. Since prospects all point towards continued good prices, one would be ill-advised in allowing milk that two decades ago, the betanists production to go down for the want of abundant feed and care for the cows. Now is the time to make use of supplementary feeds, meal rations and if need be, hay. Fed now, these will return a profit, whereas if withheld and the cows allowed to suffer, this feed will be required to maintain them after they have reached that condition where fair yields and profits are impossible until another season.

THE PROMOTION OF PEACE

At last we are beginning to see the utter folly of spending millions of dollars in times of peace to prepare for war. The Congress of the United States has recently voted \$10,000 for the appointment of a commission for the promotion of universal peace Had the governments of the world during the past 25 years spent one tenth as much money to promote international peace as has been spent in maintaining standing armies and expensive navies, such a thing as war between nations would have become an impossibility.

war is a crime. There was a time

when men carried their own weapons with which to settle their individual disputes. They saw their folly, and instituted courts having power to adjust difficulties between individuals. The time is near at hand when nations will realize that it is possible for them to leave the adjustment of their difficulties to international courts of arbitration.

The French Government has unearthed in Babylonia 45,000 tablets giving the history in full of the reigns cf ancient kings. These tablets show that during the reign of Nebuchadnezzar, they had free rural delivery of mail over every highway in the kingdom. Yet, we are told as farmers that we are ahead of the times when we ask for the general introduction of parent, therefore, that the breeding of free rural delivery in the well settled

East vs. West St. Thomas Journal

In Ontario no board of trade has undertaken to improve farm cenditions and solve the problem of how to keep the young man on the farm,

but the problem is here nevertheless.

When we consider that farm life has when we consider that farm life has twice the attraction to-day that it had a generation ago and that those false standards which placed professional life in the city as superior to cientific agriculture are being wiped out, when one considers that here in old Ontario is the modern Garden of Eden, that one can get an average yield twice as great to the acre as in the west and that nearer the market and that the opportunity for general farming is so much greater here than in the west and all without the necessity of "roughing it," one wonders why it should be that this problem should have become so serious in Ontario.

serious in Ontario.

However, that problem is not a possibility but a fact. It is a fact right in this county of Elgin where the fertility of the land is many times that of the west, and where the attractions of life are many times those in the new country.

The Minister's Turn To Move Toronto World, (Conservative.) Mr. J. W. Flavelle has published his open letter to the Minister of Agriculture as a pamphlet, thus embodying in permanent form his charge that the

department is neglecting its duty in permitting so many of the young men cf Ontario, the cream of our agricultural people, to leave their own province for the west, thus diminish province for the west, thus diminish-ing the production of every line of food material for which there is a demand, and, by consequence, caus-ing the great enhancement in the present value of food.

In response to the added demand for focd products, Ontario has actually raised a less number of milel of milch ally raised a less number of milch cows, of beef cattle, of sheep and lambs, of hogs, of butter, of cheese. and of poultry and eggs. Concur-rent with this there is a reduced acreage of wheat, barley, oats, peas an beans, and but a small increase in corn, rye and buckwheat. "Why," asks Mr. Flavelle "is there enterprise and development in every

field of activity in this province except agriculture?"

When the next session of the legislature opens Hon. James Duff may be assurred that this question will be put more pointedly still from the opposition benches. And it will not do for him to sit back and ask Hon. A an impossibility.

Education is all that is required to show the people composing the civilized nations of the world that

-PUI

July :

Some firms offe Farm an for adver us a large privilege. declined. have rece that they that we This bein should co readers in doing so, act in our

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Toma Tomatces

sawdust and the Canary tant by ste covent Gar ranging fro a pound. In from the 1 Canary Isla crop begins cents a bush This is t Lockie Wil the Agricult cieties for (sult of his

PUBLISHER'S DESK

Some months ago, two different firms offered to buy the front cover of Farm and Dairy for the whole year for advertising purposes, and te pay us a large sum of money to secure that privilege. Both of these offers were declined. The numerous letters we have received from our readers show that they appreciate the illustrations have received from our readers show that they appreciate the illustrations that we publish on cur front cover. This being the case we feel that we should consider the interests of our readers in a matter of this kind. In doing so, we are persuaded that we act in our own best interests.

act in our own best interests.

During the past few years, several of the leading farm papers of the of the leading farm papers of the United States and Canada have abundanced the policy they had feliabundanced the policy they had feliabundanced or their front covers. These include such well-known publications as Hoarf as Dairymen, The Nor-West Farmer, and the Maritime Farmer of St. John, N.B. The Farmer of St. John, N.B. The growth of the publications has been carked, for adually publishers are beginning to find that nothing is too good for their readers. That is the view of Farm and Dairy.

What times we do have with some of our subscribers over expired sub-scriptions. There are those who pro-test vigorously if we do not stop their test vigorously if we do not stop their paper as soon as their subscriptions expire. There are others who protest just as vigorously if their subscrip-tions are stopped. One man wrote us recently as follows:

"Please find enclosed 50 cents for my subscription to farm and Daise

"Please find enclosed 50 cents for my subscription to Farm and Dairy for the last six menths, and please stop my paper. I have taken your paper for the last 12 years, and you were never afraid before that you would not get your pay. I can sign would not get your pay. I can sign for lots of ether papers just as good. I can sorry that you were afraid to I am sorry that you were afraid to This man's subscription had been This man's subscription had been trained to the work as he did simply because we dared to draw his attention to the matter.

Such subscribers de not realize that Farm and Dairy has thousands of subscribers, and that if each man was

subscribers, and that if each man was-allowed to get in arrears for his sub-scription for a year, we would be owed thousands of dollars in small sums by people living in all parts of the Dominion, and that our loss through this cause would be very heavy overy

Farm and Dairy is not like a local paper whose editor knows each of his subscribers. We have thousands of subscribers. We have the usand readers all over the country whom we do not know personally. Thus we readers all over the country whom we do not know personally. Thus we do not know personally. Thus we find it necessary to bill our subscribers more promptly than does the average local paper. We kepe that our readers will bear this point in mind and be more lenient in their mind and be more lenient in their mind and be more lenient in their mind and the mind and judgment upon our action when they receive occasional notices from us on the customary forms about their sub-scriptions being in arrears.

Tomatoes for London

A omatoes for London
Tomatces packed in a mixture of
sawdust and peat and shipped from
the Canary Islands, severe days distant by steamship incare sold in
Covent Garden, London are sold in
Covent Garden, London for the
ranging from twopence to
a pound. In Ontario, no farther away
from the British market than the
Canary Islands tomatoes, when the
crop begins to move, are sold at 25
cents a bushel.

continent of Europe in quest of infermation for his department. The possibilities this one market pre-Some months ago, two different forms offered to buy the front over of Farm and Dairy for the whole year of adversing the form over of for advertising the form over of farms offered to buy the front over of farm and Dairy for the whole year. shipment of Offsaro produce is made to British markets, a consignment of Tomatoes packed in sawdust will likely be included.

be included.

Although Ontario has proven to be especially well adapted for the cultivation of tomatoes, this vegetable has not found its way to the great London market. A few years ago, shippers attempted to introduce Ontario tomatoes in England but they were shipped in cold storage, and their condition upon arrival put a damper. condition upon arrival put a damper condition upon arrival put a damper on the enterprise. The growers in the Canary Islands, knowing that the tomato needed dryness more than any tomato needed dryness more than any-thing else, have adopted the plan of packing them in sawdust and peat. According to Mr. Wilson, tomatoes packed in thig way will keep for two weeks after arriving in London.

A Well Equipped Farm Barn

J. A. Hutton, Peel Co., Ont.
To have farm buildings conveniently arranged is a source of pleasure. The time and labor saved is also a very important consideration. Fifteen years ago we built a barn, 90 x 54 feet, with a 10-foot stone bearmant, making was largely of the basement, making use largely of the timber and lumber from the old

buildings.
In our locality there was a differ-In our locality there was a differ-ence of opinion as to the merits of the side or the end drive. We were in favor of the latter allowed accordingly. Our barn is so a latent that the rack lifter which we use can be slid along the beams arranged for it quite easily. After filling a mow we simply hitch two of the lift ropes to the empty rack, or full as the case we simply hitch two of the lift ropes to the empty rack, or full as the case may be, and pull it ahead to the next mow. It can be run from one end of the ant to the other. We have a doer at each end, and it is im-material which end we drive in from. On a 100 acre farm we think the rack lifter about the right thing to use lifter about the right thing to use where only two men are doing the

STABLE ARRANGEMENT.

Convenience in feeding the stock is another point in favor of the end

drive.

Our basement stable is 54 x 54 feet, having the horse stable and box stalls are one side and cow stables on the one side and in the end next the postest aide and in the end next the yerd, which is 54 x 22 feet. This loves a space at the back, 54 x 14 feet, taken up by a bull pen and two ping pens. All the stable is floored ping pens. All the stable is floored years are the pense of th

THE TREAD POWER.

For a few years after building we had the tread power placed in a space now occupied by cow stalls directly under the drive way in the barn above. It was so arranged that it could be raised or bowered in a minute above. It was so arranged that it could be raised or lowered in a minute with ease to suit the power required. It was connected with a reason separator room. That it is tended to the outside, where the connected with the circular saw when needed. One belt ran to the pulper and another to the chaff cutter in the barn above.

FROM FODDER TO BUTTER No saving process can equal the De Laval Cream Separators FREE CATALOGUE THE DE LAVAL SEPARATOR 173-177 William St. MONTREAL WINNIPEG VANCOUVER *

needed for the silo, for the cows. The outfit is so placed that it does not interfere with the hauling in of the cern. The cutting box is placed close to a chute so that the corn falls down into the feed alley.

A HOME-MADE LITTER CARRIER. A HOME-MADE LATTER CARRIER.

In removing the litter from the stables we use an inexpensive carrier, made from an old horse fork car remodelled by the blacksmith, with dumping box attachment. This convenience needs to be used to be fully

venience needs to be used to be fully appreciated.

We have an abundant supply of water, which flows by gravitation into a tank in the stable, never coming above ground until it gushes up, sparkling and pure for the free use of the stock. The water piping is so arranged that the engine is supplied when threshing or cutting corn.

Our Veterinary Adviser

WORMS IN PIGS .- (1) Give treatment for worms in pigs. Do not suggest turpentine, as everybody knows that pigs will not take it.

not take it.

(2) Two pigs killed recently were full of worms, and others in the same pen switch their tails and stamp their feet, and the sow seems stiff in her back. Will worms cause these symptoms?—C. N. N., Halibur ton Co., Ont.

toms in the young pigs but would not affect the scw's back.

DISTEMPER.—Horses have distemper.
Give treatment.—J. B., Grey Co., Ont.
Make a liniment of three parts each
of oil of turpentine and raw linseed
oil and one part of liquor ammenia
oil and one part of liquor ammenia
betwee daily until it commences to
twice daily until it commences to
thister. As the abcesses form lance
them and lush the cavities out three
them and lush the cavities out three
them and lush the cavities out three
them and representation of creolin. Give three times
colour daily day that a warm five per cent.
I would be the cavities of the colour daily
daily day that a warm five per cent.
I would be compared to the colour day
and the cavities of the cavities of the colour day
and the cavities of th the patient will no ease ggs to drink. Do not attempt to ggs to drink. Do not attempt to dreuch as the patient cannot swallow dreuch as the patient cannot swallow as the control of the c

The Care of Boars—The condition of the boar should always be that of thrift and vigorous heads to the condition of the condit covent Garden, London, at prices barn above. Covent Garden, London, at prices barn above. We made much use of these contagging from two pence to sixpence a pound. In Ontario, no farther away from the British market than the Canary Islands tomateses, when the cop begins to move, are sold at 25 capacity yet easier running and any of the contrast that Mr. Lockie Wilson, Superintendent of the Agricultural and Hortzen and Islands and some does not always from the British market than the Canary Islands tomatese, when the cop begins to move, are sold at 25 capacity yet easier running and cooling, and if corn is given it true that if the pigs are starved for additional contrast that Mr. Lockie Wilson, Superintendent of the Agricultural and Hortzen and Hortzen

katchewan was endorsed at the dairy-convention held at Saskatoon, May 19, and considerable emphasis was placed on the importance of 'quality.' In view of such action it is quite neces-sary that every effort be made to improve the quality of the cream sup-ply and the butter made therefrom.

ply and the butter made therefrom. Creamery managers are advised to keep a strict lookout for inferior cream and advise the owner respecting cleanly methods in milking, etc., sham-ming at least 35 per cent. cream and cooling immediately and maintaining or delivered to the hauler. Cream should be cooled to at least 55 degrees. If it is necessary to return the cream If it is necessary to return the cream in order to secure the desired improvement do not hesitate in doing so. I want strictly first-class butter. I can sell it in the Lest market and get a higher price, which means more money to the patrons and increased patron

Some of the resolutions passed at the first Annual Convention of Saskatchewan Dairymen, held at Saskatoon, on May 18th and 19th, 1910, follow. These should receive the careful attention of our dairymen.

1. Resolved, that this convention heartily endorses the policy of the Denearry endorses the poncy of the De-partment of Agriculture in judiciously centralizing the creamery work as outlined by the Hon. W. R. Mother-well, and that our energies be concen-trated in promoting the same, and further that we do strongly advise against the erection of our creameries in close proximity to each other.

2. That directors as well as secte-

taries familiarize themselves with the general business of the creameries so general business of the creameries so that grievances, real or imaginary, may be dealt with judiciously to the satisfaction of all parties concerned. 3. That the business management of

3. That the outsiness management of the creameries under government con-trol has been such as to warrant com-mendation and we do hereby express our appreciation of and confidence in their work and methods.

4. That too great emphasis cannot the winter production of milk.

Creamery Department

Butter makers are invited to send constitutions to this department, loss quasitions on matter between the department, loss quasitions on matter solvating bother making as a means of reducing contamination.

(3) The advisability of skimming a 35 per cent. cream which lessens germ content and propagation. (4) The uniform adoption of cooling cream in cansulate the Winnipeg exhibition showed greations on matters to terement peartment.

**Creamery Work in Saskatchewan

W. A. Wilson, Supt. of Dairying.

The work of the government in connection with the creameries of Saskatchewan was endorsed at the dairy-convention held at Saskatoon, May 19, the convention held at Saskatoon, May

93; 5, Emile Dubois, 92½; Factory, white, made after June 15 -1, J. P. O. Allaire, 95; 2, Albert Couriere, 94; 3, Emile Dubois, 91; 4, Fred S. Hadler, 90½; 5, J. P. O. Allaire, 90.

Twins, white or colored, made in June-1, J. P. O. Allaire, 94½; 2, Emile Dubois, 91½; 3, J. P. O. Allaire, 91.

Three young Manitobans, made in June—1, J. P. O. Allaire, 93½; 2, J. P. O. Allaire, 90. Butter classes

Creamery packages, not less than 50



Delegates to Saskatchewan's First Dairy Convention

Dairying is beginning to go ahead in Saskatchewan. The members who attended the dairymen's convention held receivify at Saskatoon, were very optimistic as to the future of the industry in that prairie province. The delegates illustrated, reading from left to right, are as follows: Back row-Thos. Ross, W. A. Murro, (Supt. Rosthera Experimental Farm), A. J. Elve, F. tt. Whiting, George Hertelin, Wm. Schnell; second row-Prof. A. R. Greig, Prof. Bracken, A. E. Engesetter, Dr. Flatt, C. E. Payare, W. J. Broon, Mr. Bateman, John Waddell, W. Burton, third row-A. E. Pennon, W. J. Sangster, Dean Rutherford, Hon. W. R. Moltherwell, (Minister of Agriculture), H. C. Liele, M.L.A., Thos. Ross, W. McCyrlell; fourth row W. A. Wilson, (Supt. dairying), L. A. Zufel, (Dairy Instructor). Instructor Zufelt has settled in the West only recently atter many years' vanuable work in Ontario as an instructor on the road and in the dairy school.

a system of cold storage should be es-tablished within the province and this tablished within the province and this matter should be brought to the im-mediate attention of the government with a view to the establishment of same at an early date.

6. That dairymen be urged to give more attention to the improvement of their present herds from the stand-

point of milk production and to provide forage crops to supplement the natural pasturing in the early spring and fall as well as sufficient food for

Cheese classes: Factory, colored, made up to June 15—1, A. W. Dumaine of Saltel, 94; 2, Emile Dubbis, cf Richer, 93; 3, W. H. Trimble, of Red Deer, 89½.

Red Deer, 89½.
Factory, white, made up to June 15
—1, Fred S.Hadler, of Greenleaf, Wis90; 2. Emile Dubois, 89½; 5, J. P.
O. Allaire, of St. Boniface, 89.
Factory sweepstakes—J. P. O. Allaire, score 95, (maker, Chas, Gaudet,
of Oak Island.)

Factory, colored, made after June 15—I, J. P. O. Allaire, 94; 2, J. P. O. Allaire, 93½; 3, Albert Couriere, of Lerette, 93¼; 4, A. W. Dumaine,

THE Butter Worker made for Practical Butter Makers-that's the National! The Nat-

ional Butter Worker, built entirely of hard

wood, is unquestionably the most practical butter

worker sold in Canada to-day, and is in use in

the leading dairies of the Dominion. Every

dairyman and farmer who makes butter owes it

to himself to know more about the superiority of

this practical device-it's a matter of dollars and cents on the profit side of his books, to own a

Write to us for full particulars; we will gladly

give Information and send our Booklet

Free on request

ture explaining the Lest methods of exhibits. The awards and scores follow:

low:

low:

low:

Cheese classes: Factory, colored,

5. That in the interests of dairying a system of cold storage should be estimate of Saltel, 94; 2, Emile Dubois,

system of cold storage should be estimate of Saltel, 94; 2, Emile Dubois,

system of cold storage should be estimate of Saltel, 94; 2, Emile Dubois,

system of cold storage should be estimated by the color of the col

Creamery packages, not less than 50 Creamery packages, not less than ou bles, for export, in cold sterage since June 17—1, Brandon Creamery, 93; 2, Geo. Matherson, 92½; 3, Hough Bros. & Wickware, of Rossburn, 89; 4, Jacob Thomson, 88½; 5, W. B. Gil-roy, of MacGreger, 87;

Creamery prints, 20 pounds—1, Brandon Creamery, 96; 2, Geo. Nunnerly, of Wadena, 95%; 3, G. O. Jacobs, of Neepawa, 95½; 4, Geo. Neilson, of Qu'Appelle, 94%.

Creamery, assorted packages, 14, 28 and 56 pounds—1, Jacob Thomsen, $6\%_4$; 2, Gec. Matheson, 94; 3, Brandon Creamery, 93 $\%_4$; 4, 8. M. Sigurdson, of Ardol, $90\%_4$.

Sweepstakes-Jacob Thomson, 961/4. Sweepstakes—Jacob Homson, 1994.
Farm dairy, package not less than 40 pounds—1, Miss H. C. Taylor, of Headingly, 914; 2, R. D. Laing, of Stonewall, 94½; 3, Robert Buchannan, or Buchannan, 92; 4, R. A. Rutledge, of St. Charles, 86½.

Farm dairy, ten pound prints—1, R. D. Laing, 95½; 2, Miss Taylor, 95; 3, Mrs. G. H. Clark, of Mt. Royal, 93½; 4, R. W. Parrott, of Carman,

Farm dairy, package not less than 20 pounds—1, R. A. Rutledge, 94; 2, Mrs. Peter McCrimmen, of Carman, 93½; 3, Thos. Riggall, of Lillyfield, 92½; 4, R. W. Parrott, 91½. Sweepstakes, farm dairy-R. D.

Laing, 951/4. De Laval silver cup for highest coring butter made from cream separ-

ated by De Laval separator—R. Rutledge, 94. Rutledge, 94.

Highest scoring dairy butter made from cream separated by Empire separator, special—1, Miss Taylor, 95; 2, McMcCrimmon, 93½.

"Enclosed find \$1 for my renewal.
an't do without Farm and Dairy."
-E. Roy, Stormont Co., Ont.



BUTTER WORKER

THE NATIONAL MFG. CO., Ltd. - Head Office, OTTAWA FACTORIES:—Ottawa and Brockville BRANCHES:—Regina, Sask., Edmonton, Alta., Moncton, N.B.

National.

date last y 33 cheese Ontario sl make, five three mad smaller ma in patrons igures for cent., with part of the spell, howe and there

July :

Makers o this de

**** Increa

More ch taric up year than

E4444 Che

the make f will not be quality of t pared favor ome cases improvemen on the par of milk. Reports, various dist I am gett Stormont Co

cent rains

Our make and is still although the creased 1,000 — J. W. Car The supply ahead of lar milk is some ceived last y —A. Garralt

The milk re of good qua over 1,000 l than last year Co., Ont. The make it

ably larger t as compared R. L. Carte L. Carte

During the e received than we did st year, and John Snelsin Last year I this year our

Simms, Presco We have re year, but if w right away, August will go Prince Edward May and Ju year, but the

going to be as Lennox Co., Or From April
Oth I had 24,8
last year for

last year for Brujuen, Presc We have ree amount of mil J. Steele, Fron Our make wi mear. This is of ber of our p

We are at 1 200 lbs. of che last year.—S. Our make thi

Last year we milk a day; the exceded 3.500 Frontenac Co. (

Cheese Department

*********** Increased Make of Cheese Reported

More cheese has been made in On-taric up to the middle of July this year than was made up to the same date last year. Reports received from date last year. Reports received from 33 cheese makers in various parts of Ontario show that 25 had a larger make, five het same make, and three made less than last year. The smaller make was due to a falling off in patrons. Those makers who gave figures for their make of both years show an increase of from 13 to 33 per cent., with an average of 25 per cent. Pastures were excellent in the early

Pastures were excellent in the early art of the season. The recent dry Pastures were excellent in the early part of the season. The recent dry spell, however, has dried up the grand, and there has been a consequence of the crease in the flow of milk. The corresses in the flow of milk. The corent rains will help the pastures, but the make from now on, it is thought, will not be in excess of last year. The quality of the milk delivered has commared favorably with last year. In quanty or the milk delivered has com-pared favorably with last year. In some cases there has been a marked improvement, due to knowledge gained on the part of patrons on the care on the

Reports, in part, as received from various districts fellow:

Reports, in part, as received from various districts follow:

I am getting more milk than I did last year at this time.—Jas. Russell, Stormont Co., Ont.

Our make of cheese has been greater and is still greater than last year, although the milk supply has decreased I,000 lbs. in the last few days.—W. Carter, Porth Co., Ont.—The apply of milk this year is much although last year. The quality of milk is greater than that received last year than that received last year than been of good quality, and see have made over 1,000 lbs. more cheese to date than last year.—W. C. Gunness, Leeds Co., Ont.

The make in our feature is consider.

Co., Ont.

The make in our factory is considerably larger this year than last. In June we made 29 cheese on one day as compared with 22 of last year.— R. L. Carter, Prince Edward Co.,

During the week ending July 16th, we received 3,000 lbs. of milk more than we did during the same week last year, and that from fewer cows. —John Snelsinger, Stormont Co., Ont. Last year I made 55 cheese a week;

Last year I made 55 cheese a week; this year our make averages 63.—Jas. Simms, Prescott Co., Ont. We have received more milk this year, but the week of the week o

From April 25th, 1910, until July

orh I had 24,869 lbs. more milk than last year for the same period.—T. Brujuen, Prescott Cc. Ont.

Brujuen, Prescott Cc. Ont.

We have received about the same
smount of milk this year as last.—

J. Steele, Frontenac Co., Ont.

Our make will be smaller than last
year. This is largely due to a numbeer of our patrons retiring from
farming.—H. Bennet, Oxford Co.,
Out.

We are at present making about 200 lbs. of cheese a day more than last year.—S. H. Pwiddy, Hastings,

Our make this year has fallen off.

We received up to June 25th about 1,000 lbs. more milk per day than in 1909, but are now down to the same amount.—F. Bwen, Grenville Co., Ont. Last year we received about 7,500 lbs. of milk per day; this year about 9,200.—Eugene Fortus, Glengarry Co.,

10.200.—Eugene Fortus, Glengarry Co., Ont.

Ont.

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Ont.

The making cne cheese a day more than vegularly.—G. H. Farestell, Hasting Co., Ont.

The making co., Ont.

There has been a great deal of milk this year as compared with last.—Wm.

Taylor, Grenville, Ont.

We made 45 more cheese in May this year than in the same month last year, and 22 more in June.—J. M. Wilkinson, Hastings Co., Ont.

Our make has fallen off this year when the making co., Ont.

Our make has fallen off this year when the make has fallen off this year than or three cheese a day, but we have or three cheese a day, but we have a seen that the making co., Ont.

We have just Lanark Co., Ont.

We have passing one more cheese a day this making one more cheese a day this great than the make the make the making of the make the ma

Co., Ont.

Thave more milk coming in than
thave more milk coming in than
that this time last year, but have
more attrons.—Go. Parker, Frontenac Co., Ont.
The flow of milk is much greater
this year
Unudas Co., Ont.
The flow of milk is less than we had
looked for, but is ahead of this time
last year. Owing to extreme heat,

last year. Owing to extreme heat, the quality of milk has not been as good as last year.—H. L. Thompson, Lennox, Ont.

Our make of cheese has been fully one-third greater this season than last.—Geo. Ivey Northumberland Co.

The milk supply is a good deal larger now than last year. The outlook for the balance of the year is good.—J. H. Perautt, Carleton Co.,

Our make is somewhat better than our make is somewhat better than last year. We are making 15 cheese a day as compared with 11 at this time last year.—J. O'Riley, Brant time In. Ont.

time last year.—J. Utilley, Brant Co., Ont.
The milk supply has been good, a little better than last year.—Sandy Clarke, Haldimand Co., Ont.
Our factory is doing better than it has for the past three seasons. One of our patrons sent 16,000 lbs. of milk in May as against 7,000 lbs. in May last year.—H. J. Windley, Frontenac Co., Ont.
The milk supply is about one-third groater than last year, due to good make and increase of pasture. My make anding June 30th is about 1,400 bbs. greater than last year.—P. Griffia, Frontenac Co., Ont.

The Fat Plus Two System

Thos. J. Millar, Grenville Co., Ont.
At one of our factories several years ago, the patrons adopted the system of paying for milk by the fat-plus-two flavors, and the paying for milk by the fat-plus-two flavors, and the proceeds that it is never qestioned at our annual factory meetings but it taken as a matter of course. Though some of the patrons have not read that all kinds of farm produce cannot be a fat and the fat of the Thos. J. Millar, Grenville Co., Ont. Our make this year has fallen off. [arm), is handled, with quantity as Last year we received 4,000 lbs. cf milk a day; this year we have not paid to quality. It is only fair to the prontenac Co. Ont.

[Arm), is handled, with quantity as a basis of value—little attention being paid to quality. It is only fair to the man having richer milk that he should get the benefit of it.

The straight fat basis is the proper way to figure out a division of the proceeds. Since reading the editorial in Farm and Dairy of April 7th, (which contains a report of experiments made at the Eastern Dairy School), I am more firmly convinced than ever that such is the correct method.

Wind Mill to Elevate Whey

Chas. Shook, Frontenac Co., Ont.
We use a wind mill to elevate the
whey in our factory and it gives good
satisfaction. The lower tank is
round and the wind mill is placed
over the tank. The top tank is to
over the tank. The top tank is to
over the tank as a three inch brass
colinder the top tank is to
over the tank. The top tank is to
over the tank as a three inch brass
colinder the top tank is to
over the tank. The top tank is to
very the tank is to
the short the top tank is
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tank in Chas. Shook, Frontenac Co., Ont. ling and down to the legs of the mill. These wires are twisted tight to hold the cylinder from lifting off the tank below. A mipple in the bottom of the cylinder has holes cut in it so that it can suck up the whey. If dirt gets into the cylinder it is very art to clog up the holes in the nipple more than the contract of the contract

We have a six inch galvanized pipe We have a six inch galvanized pipe going to the surface of the whey, which is split at the lower end and hotted to the bottom of the tank. This pipe is punched full of holes. These holes should be small enough to keep a great part of the dirt out. I keep an ejector connected in case there should be no wind. There were only four days last summer in which only four days last summer in which we could not elevate with the mill.

Dairy Notes

Owing to the fact that many factories whose shipping points are on
the G.T.R. are unable to send cut
their cheese and they may possibly
suffer serious loss the following resoiution was moved by Mr. Steinhoff
and seconded by Mr. Ballantyne, and
sarried unanimously, at the Woodstock
to be loard on July 21st:

One loard on July 21st:

One loard on July 21st:

And transache strike of conductors
and transache strike of the conductors
and transache strike of conductors
and transache strike transache
steen, and thus entered transache
steen, and thus entered transache
steen, and the services of Canada, insteen, and the products of many cheese
cluding the products of many cheese

ing the dairy interests of Canada, in-cluding the products of many cheese factories represented at this Board, therefore, be treadyed that this Board respectfully urge that the Board respectfully urge that the government use every possible means to accomplish a settlement Letween the Railway Cc. and its employees the Railway Cc. and its employees by arbitration or negotiation. so by arbitration or negotiation, so that resumption of the movement of perishable products may immediately

"We are renewing our subscription to Farm and Dairy. We like it and should miss it very much if it stopped coming."—W. Bird, Russell Co., Ont.

Deserve To Be Laughed At

Sharples Dairy Tubular Cream Separators



ly piece used inside Shar



Write for No. 953

THE SHARPLES SEPARATOR CO.

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD CASH WITH ORDER

WANTED-Cheese makers the coming season to sell subscriptions to Farm and Dairy, Peterboro, Ont. Good cash commission for each subscription taken write Circulation Manager, Farm and Dairy, Peterboro, Ont. for sample copies for your patrons. Samples sent free on application.

WANTED, AT ONCE, Experienced Cream ery Assistant for balance of season.

Apply with references to H. Weston

Parry, Princeton, Ont.

FOR SALE—Iron Pipe, Pulleys, Belting, Rails, Chain, Wire Fencing, Iron Poets, etc., all sizes, very cheap. Send for list, stating what you want. The Imperial Waste and Metal Co. Queen St., Mon-treal.

REENFEE SILO

THE IDEAL GREEN FEED

Means More Milk More Profit and Cheaper Feed.

Do not be satisfied with experimental silos, get the one that by years of use has proved its worth. In justice to yourself you CANNOT AFFORD to use any other. Be guided by the verdict of our users, the only men who are the most competent to judge.

One of our Silos will furnish you June Feed in January weather. Built in all sizes, from lumber soaked in our specially prepared wood preservative

FREE CATALOG ON APPLICATION

Canadian Dairy Supply Company, Limited MONTREAL, P.Q.



OU will find as you look back upon your life, that the moments that stand out, the moments when you have really lived, are those moments when you have done things in the spirit of love.

Henry Drummond.





A NOVEL OF GOOD CHEER BY MARIA THOMPSON DAVIESS

(Continued from last week)

SYNOPSIS OF FOREGOING INSTALMENTS

SYNOPSIS OF FOREGOING INSTALMENTS

Miss Selina Luc, generous and tender of heart, and endowed with what is called

"faculty," keeps the grocery at River Ruft. One day Bennie Dodds runs in to the
grocery to ask her to come and unsew his sister's thumb which she has caught in
the machine. On her return she feeds the five babies whom she cares for in soap
boxes by a sunny window in the rear of the store. Her friend, Cyrthia Page, a
charming young girl, calls on her and learns that she has taken a young artist,
named Alan Kent, to board. They are introduced and Cyrthia is annoyed at the
young man's apparent assumption of instant friendliness, and leaves abruptly. Miss
Selina tells the young people at a later visit of her encounter with a city club wo
wan, and how she came to the Bluft.

From the doorstep, "does the histories of the other two soap-boxers, brute de?"

"Well I wouldn't skeercely call him a brute, I think," asid Miss Selina Lue, as she shock out her duster and began on the shelf of canned tongue. "He runs a laundry wagon and he says it is a advertisement fer the house fer him to be a stylish dresser, but I can't see why the house has to have him were purple sock and and have him were purple sock and out with trying to piece along and keep going. Sometimes I think it must be vanity in Mr. Simmons, and

an shoes, when his wife is all drug out with trying to lees along and keep going. Sometimes I think it unst be vanity in Mr. Simmons, and vanity in a man is like a turkey-gobler a-strutting in November."

"What about vanity in the ladies, Miss Selina Lue? You surely don't approve of that."

"New, Mr. Alan, you're mad at what I said about the men and are trying to git even with me." And Miss Selina Lue smiled over her shoulder at him. Miss Selina Lue's smile was like a broad beam of sunshine on a summer morning. "Don't you know the Lord wouldn't have gave women folks shiny curls, cheeks pinks like a peach, figgers plumb beautiful and eyes blue as the wild vi'lets on the creek, like Miss Cynthie there, lessen He intended to excuse them some fer being proud?"

"I don't believe He would quite stand for that amount of pride and grudge Mr. Simmons the purple socks," murnured Mr. Alan over his cigar in careful softo voce, and immediately steered Miss Selina Lue off the disturbing tople of her friend's perfections.



Fine Commodious Farm Home Owned by Mr. R. A. Deyell, Peterborough, Ont.

A good style country farm house, made of brick. The above house is 36 x 37 ft., with cresting. Two bay windows in front, on each floor, and a veranda on the first floor, make a comfortable and pleasing arrangement. The ceilings in this house are 10 ft. high. There is one bedroom down stairs and a fine large kitchen and pantry. The root and furnance cellar toth have concrete floors.

Miss Selina Lue? It seems the thing on the Bluff to know all about your neighbors, and my intimacy with your everything in the world and Heaven kindies grows apace." There was a winning wholesomeness in Mr. Alars? done gave the password to Kingle winning wholesomeness in Mr. Alars? done gave the the password to Kingle with the soul of Miss Selina Lue, and she re-lack the confidence of my heart from ening as to her rational method of

that can't house and a solution is even to be solved a rainfair rister over to Thism City. After she had got the other for ready to go, there jest wasn't nothing to fix Pattie up in fitten for a visit, so she left her with me. I wash the blue gingham out of nights and piece out with a dress of Blossom's when it's needed bad. Looks like Mis' Tyne dreads the sewing machine and a bott of caliker like they was tyhoid smallpox."

"And last, but not least, tell me the tale of Blossom, the lady of my heart, the only person who really appreciates me for my true worth which is peppermint candy in limited quantities and a shoulder cushinoned in brawn and exhalted in height. Blossom is a lady of discernment and has the cour-

lady of discernment and has the cour-

age of her predilections. "Mr. Alan," said Mis "Mr. Alan," said Miss Selina Lue as she sat down on the step by him and, picking up the little white calico bonnet he had let drop off the nodding head of the lady in question, began to plait the ruffle with caressing fiagers, "they ain't many people I would tell the story of her to. One way or another, I have shet up every soul on the Bluff as has asked me. Of course Miss Cynthie knows, fer people can't help talking pitfulness to said Miss Selina Lue course Miss Cynthie knows. Fer people can't help talking pitifulness to her, but the rest jest found he here, and that is all they need to know."
"It was a year age last Christmas it happened to me and Charity to find

it happened to me and Charity to nndher. About dark when I was busy to
death doing up supper truck—as you
see, that's my busiest time of day—a
girl come in here I never saw before
and she looked wild and white. She
carried a bundle in her arms, but I never suspicioned anything, so I jest sold her n box of crackers and she went out. Then I plumb forgot her, as I oughten to have done, for she

as I oughen to have done, for she wasn't hap-y-seeming, and sich as she oughter to be on my mind."
"Miss Selina Lue, please forgive me for asking. Perhaps I ought not to know." And Mr. Alan caught one string of the limp little bonnet and curled it tenderly around his finger. I really do-love the little mite, if

veled in the unbosoming of herself to him. His dark eyes shone with interest and his straight mouth had an unexpected quirk in the left corner, casily interpreted as indicative of a sense of hume. The little one that can't hardly set up good yet, is lest to speak a transient, as her mahave gone on a visit to her sister over to Union City. After she had got the other five ready to go, there jest wasn't nothing to fix Patties up in fitten for a visit, so she left her with the milk do run short in the morning, and that's what saved the child's life, have gone on a visit to her sister over (Charity had crowded her spotted baby in a corner of the stall to keep it wasn't nothing to fix Patties up in fitten for a visit, so she left her with me. I wash the blue gingham out of mights and piece out with a dress of Blossom at her ow the blocks like Mis' Tyne dreads the serve had a serve to leave the warn.

unhappy."

"She chose the place to leave the haby—wisely." said Mr. Alan, as he walked over to the counter and slipped his finger into the curled, pink, little hand which grasped it firmly even from the depths.

"Yes, you can always my."

even from the depths.

"Yes, you can always put dependence in the sense and good feelings of a cow," answered Miss Selina Luc, with sweet unconsciousness. "Did you ever think what a neble life they lead—always agiving for other people who don't show no more appreciation than a bucket of bran and a little water? If exes and asses was there, I want to thing a cow helped to watch over Him that night. It makes me feel easier about Mary; fer cows they knows things same as humans."

CHAPTER III. HOW MISS SELINA LUE CAME TO THE

"I don't hold with thinking up bad happenings onto people, for sometime it might kinder hit 'em on some blind side we don't know about and take." -Miss Selina Lue.

"Now," said Miss Selina Lue with a sigh of relief, "every sting is tied up. The camphire held out fine and there are two pink rags left. Everyhedy forget all about the yellow-jackets and put your mind on the making of the lemonade. I'll get the lemons." And as he spoke she rose frem the top step and started into the grocery. She paused for a moment and ran her eyes over the group huddled along the steps while laughter strow with sum-

step: while laughter strove with sympathy in her expression.

Just at that mement Miss Cynthia came down the Hill with her rose hat swinging in her hand and her curls ar-tuffe with the breeze. She paused and took in the meind and her with the breeze. swinging in her hand and ner curis a-ruffle with the breeze. She paused and took in the maimed and bandaged crew of youngsters with round-eyed amazement. And a picture of wholesale catastrophe they presented! Bennie sat on the tcp step. Tied meatly around his head was a huge white bandage, from which his freekled face pered with swollen solenity. Ethel Maud drooped on the corner of the step below and nursed a red and enlarged little wing that had been an ear when last Miss Cynthia had beheld it. Luella Kinney chokel back sobs with an abnormally fat thumb, which she kept fast in her mouth, seemingly deriving comfort therefrom. Around one ankle was tied a blue gingham rag, which say tied a blue gingham rag, which set cff the pink bit that swathed one of Ethel Maud's brown little feet. Sev-eral thin knees had seemingly doubled on their mates in matter of size. led on their mates in matter of size. The rest of the congregation had suffered with more or less poignance. And an aroma of mingled tears and camphor rese from the steps.

"Why—why" gasped Miss Cynthia,
"was there a—a cyclome?"

"Oh, no," answered Miss Schina Lue cheerfully. "Just a little yellow-

Luc cheerfully. Just a little yellowing iackets nest that made a mistake to get mad at the children. They have most fergot all about it, fer we was jest about to make a whole water bucket full of lemonade. Nice day,

treating Cynthia her ment friend, fo ation has

July

sobs. "Yes, in thusiastics drink sev body must from the "Yes, B

and Ethel lemons. Tup, and e help squee And for front of cheerful pains occ selves, the from the squeezed a they had third conce they conce water and rying the i ment of M friend, to they consider monade g

Lands Lue as she bare feet a down the h ruckus we was afraid sick before switched. 'Yes,

she sented Lue, exhau efforts she is was pre the direct p the direct p did you wer "Well yo Sela.a Lue some. I alv age is jest the pain. light of su ments will

one say mal agreeing wi Selina Lue, as she laugh

above her. ple think and Jericho, but of it is let I wished we that mother morning, wh children git hornets while raise 'em.'

"A mother
Miss Cynthia

"Oh, she
harm. She

harm. She kinder feelis come into quick fer her the hill-clim the hill-clim feeble and p fire in her e she talked."
"Did she purposes?"

indignantly.

"Oh, yes I she put it to of her, but it as this is wa glad enough come over to listen 'stid of

ney was as p to you abou Cynthia agair (Conti

Sugar and former in tin treating the hornet cyclone. Miss Cynthia hastened to lend the aid of her mental influence to that of her friend, for she saw that her constern-ation had started a faint echo of

"Yes, indeed it is," she affirmed en-thusiastically. "I feel as if I could drink several glasses myself. Some-

drink several glasses myself. Some-body must draw the water for it right from the well."

"Yes, Bennie can do that while you and Ethel Maud and Luella roll the lemons. There are the glasses to hunt up, and everybody must git ready to

help squeeze. And for at reast a half-hour the front of the grocery teemed with cheerful activity. If sharp little pains occasionally obtruded them-selves, they found no encouragement from the busy drinkenixers. from the

busy drink-mixers, rom the busy drink-mixers, and sequezed and stirred and sloppe, and drank to their hearts' content. After they had themselves consumed the third concertion from the yellow rinds third concoction from the yellow runss they conceived the idea of adding water and sugar still again and car-rying the bucket down for the refresh-ment of Mr. Leeks, who was a dear friend, to be runsembered at what they considered an early stage of the becoming runs. nonade game.
'Lands alive!'' said Miss Selins

Lue as she sank of the top step and watched the last scampering pair of bare feet and fluttering rags disappear down the hill, 'that's almost the worst ruckus we ever had on the Bluff! I was afraid they would cry themselves sick before I could git they thoughts switched.

"Yes," answered Miss Cynthia as she serted herself beside Miss Selina Lue, exhausted and panting with the efforts she had made in their behalf, "is was pretty bad and I was out of the direct path of the hurricane. How

did you weather the full force?"
"Well you know," answered Miss
Selata Lue, "I've got 'em trained
some. I always did believe that ccursome. I always did believe that ccur-age is jest to keep going and fergit the pain. I don't hold with making light of suffering, but if distract-ments will help to ease along, I for one say make a bucket of lemor

"Lets of people in the world are agreeing with you on that line, Miss Selina Lue," answered Miss Cynthia as she laughed up into the kind eyes

"Course common sense makes peo-"Course common sense makes peo-ple think alike from Tennessee to Jericho, but ain't it funny how little of it is let loose all along the road? I wished we coulder had more of it in that mothers' meeting we had this morning, which is the cause of all this cyclone-trouble, along of letting the children git away and into a mess of hornets while we talked about how to

A mothers' meeting?" questioned

"A mothers' meeting?" questioned Miss Cynthia in astonishment, "Oh, she didn't mean any real harm. She was sent out by some kinder feolish Women's Union. She kinder foolish Women's Union. She come into the greery about nine o'clock this morning. I got a chair outck for her to puff and rest in from the hill-climb. She looked kinder feeble and pinched, but my! she had fire in her eyes and she het up when she talked.

she talked."
"Did she come up for—missionary
purposes?" demanded Miss Cynthia

purposes." comanded Miss Cynthia indignantly,
"Oh, yes I reckon that is the way she put it to herself. And it was kind of her, but it did set back the work, as this is wash-day. Mis 'Dobbs was glad enough to leave her tubs and come over to Mis' Peter's and set and listen 'stid of rubbing, but Mis' Kinney was as put out as could be."
"And what did she have to impart to you about child culture?" Miss Cynthia again demanded.

(Continued agest peech)

(Continued next week.)

. . .

Sugar and salt are best kept, the former in tin, the latter in wooden or crockery receptacles.

The Home Canning of Fruits

and Vegetables Shaw, Agricultural College, North Carolina. (Continued from last week.)

VEGETABLES

ASPARACITE

Cut as when preparation of the proper lengual having stalks of the proper lengual fill the jars. Wash in fresh, cold water, and pack firmly. Arrange the tip-end up. After jar is filled in this way, take three or four stalks and force in centre of jar tip end down. This ht is to make the peak more firm. Put in one-fourth of a low equal parts of fruit and sugar. Stone the cherrical weight Almore firm. Put in one-fourth of a low equal parts of fruit and sugar. Place in preserving extelled the disk. In making james, mixtures of cherries and currant tures of cherries and currant turns of cherries and cur Cut as when preparing for market, having stalks of the proper length to fill the jars. Wash in fresh, cold



Fig. 4 Jars in Vessel Placed on Stove Ready for Cooking thin on the surface of the first at a time in the syrup, then cook a small syrup, and be simply the first at a time in the syrup. Fill the cooked cherries into hot, ster-ized jars and when the jar is time in the syrup. Fill the cooked cherries into hot, ster-ized jars and when the jar is to overflow jars. If there is not sufficient syrup, add be being water is most sufficient syrup, add be being water and set then side for y hours. On second day, lay, and boil me hour has a sufficient of the syrup syrup and set of the syrup. uside for 24 hours. On second day, blace jars in vessel as directed on first day, and boil one hour. Again remove jars and let stand 24 hours, and on the third day cook as directed for second day.

BEETS Young, tender, blood-red varieties are best. Boil in an open vessel until peeling comes off easily. Peel, slice, quarter or can whole, as desired. Pack firmly. Fill jars full and add fresh, cold water until jars are en-tirely full. If a mild pickle is desired. take equal parts of water and vinegar sweeten to taste, and fill jars with this mixture instead of water. Boil 10 minutes, seal tight and con-tinue boiling 40 minutes. Remove jars, set them aside for 24 hours. second day, place jars in cooking vessel as directed on first day, and boil sel as directed on first day, and boll 50 minutes. Again remove jars, set aside for 24 hours, and on third day cook as directed for second day.

BEANS (LIMA)

Carefully hull by hand, removing all discolored, broken and over-ripe beans.

Can as soon as possible after shelling, Can as soon as possible after shelling, as Lima bean lose their flavor very quickly after being shelled. Pack firmly. Fill jars to within half an inch of the ton, add one-fourth teaspountul of salt and fill entirely full with fresh, cold water. Boil 15 min-shell water water and set aside for 24 between Jars and Set aside for 25 between Jars and Ja aside for 24 nours. On second day, place jars in cooking vessel as directed on first day and boil one hour. Again remove jars and set aside for 24 hours, and on the third day cook as directed for second day.

BEANS (STRING, BEANS (STRING, SNAP OR WAS).
Select freshly gathered pods about
three-quarters grown. Carefully remove all strings and break or cut in
pieces about one inch long. Put in a
clean sack or wire basket and boil 5
minutes. Drain out and, after cooling
a little vack firmle E. minutes. Drain out and, after cooling a little, pack firmly. Fill jars almost full, add one-fourth level teaspoonful of salt and fill entirely full with fresh, cold water. Fill this versel and cook on each of three days exactly as recommended for Lima beans.

HONEY VINEGAR Mix 1 pt honey with 1 gal warm water, cover, set in a warm place, and let ferment. It will soon turn to vinegar.

In Cherry Time

UNCOOKED CHERRY BREAD PUDDING. Cut slices of dry bread, spread with butter, place in layers in a pudding dish, and pour over them stewed or spiced cherries. Let stand about 1/2 our, then serve with a custard sauce.

Stew the cherries in a very little water, with sugar to taste, then strain

CANNED CHERRIES. Tart fruit is best for can-ning. Allow ¼ lb. sugar to each lb. fruit and ¼ cup water. Boil sugar and water

PICKLED CLEBRIES.
Leave about an inch of the stems
on the cherries. Place in jars in layers alternating with thick layers of
powdered sugar. Fill the jar in this
way ½ full, then fill up with cold,
spiced vinegar, and seal. Another way
is to place thin bags of spices among
the cherries and pour plain vinegar
over the fruit and sugar.



A Farm and Dairy Agent

Our snap shot show Master D. Earle Cresswell, of Glengarry Co., Ont., who has study in a short time secured a cith of study in a short time secured a cith of large times of the study of the study He is now working on a term and Dairy. He is now working on a term and Dairy's expects to win some one of Farm and Dairy's many fine premiums. If you have not seen one of our Illustrated Premium thanks of the study seed for one to our Circula-tion. Manager. They are sure to Interest

Corn meal spoils more readily than flour, and for most families it is best to buy in small quantities. ...

Scouring, even of the most enthusiastic kind, always fails to remove traces of burned food in a kettle. This may be remedied by placing the kettle over a fire and filling it with water to which has been added a little baking soda. After the water has boil-day for minutes remove from the ed a few minutes remove from the fire and wash the kettle, it will be in as good a condition as w



Momentum Balance, Wheel orking on ball bearing, keeps the "Champion" Washing going with

ery little effort.

A new idea in washing Machines.

Favorite: Churn means easy surning. S sizes.

If your dealer does not handle them, rite us for booklets and name of dealer BAVID MAXWELL & SONS. . ST. MARY'S, ONE.

Vines for Shade

THE MORNING GLORY.

Where shade is desired for porches and verandas the morning glory is the best all-around vine we have among the annuals; if one having at-THE MORNING GLORY among the annuals; if one having at-tractive flowers is wanted. This, if thickly planted, will furnish such a mass of foliage that the sun cannot penetrate it by the middle of sum-mer, and from that time on to the coming of frost it will daily be a flower show in itself. In this vine we have the combination of the companion of the comcoming of frost it will daily be a flower show in itself. In this vine we have the combination of profuse foliage attractive bloom, which is continuous attractive bloom, which is continuous to the continuous attractive the second second at the continuous and the second secon

THE JAPANESE HOP Another very satisfactory annual is the Japanese hop. This is not at-tractive, so far as flowers are con-cerned, but its foliage—especially that cerned, but its ioniage—especially uni-of the variegated variety—is very pleasing. Its large, overlapping leaves furnish all the shade aluyone can ask for. The green and white of its foliage make the plant quite as showy as flowers would.

. . .

To relieve a burn, put affected part in clear kerosene and hold it there for a while and you will find that all the pain will cease. Keep kerosena the pain will cease. Keep kerosene away from fire. Cover with a coating of flour to keep out air and it will leave no sear.



MACE'S NEW

PATENTED ICE CREAM FREEZER AND BUTTER BLENDER

BLENDER

Des way with all the mess and turns milk into delle forcam. It al a control three minutes. It's something about lately new and should be known in a control make a control machine to you or write us for free descriptive literature and book of recipes. Machine sent expressage paid of \$8.00 deferment of the control machine sent expressage paid of \$8.00 deferment of \$4.00 deferment of

Mace Mfg. Co., Ltd., Montreal ,Que.

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Designs illustrated in this column
will be furnished for 10 cents each.
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will confer a favor by writing
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519 Design for Braiding the Front, Collar and Cuffs of a Shirt Waist or Blou e. Especially adapted to May Manton Pattern Especially adapted to May No. 6679.

Soutache and Coronation Braids and rat-tail cord are appropriate.



513 Design of Grape Clusters and bar suitable for embroidering cost or lars and cuffs, shirt waists, blouses and lingerie waists, skirts and decorative

Patterns for stamping four separate sprays two bands fifteen inches long are included-



512 Isa Design for Braiding a Border or Band. The border is two inches in width and hree yards with two corners are given.



520 Design for a Braided Hat with Scal-Brim and Crown are given.

Soutache and coronation braid and rat-tail

The Upward Look

"A great many Christians are aves to an inveterate habit of bubting," writes Hannah White-all Smith, in her helpful little doubting," writes Hannah White-hall Smith, in her helpful little book: "The Christian's Secret of a Happy Life." "I do not mean book: 'The Christian's Secret of a Happy Life.' "I do not mean doubts as to the existence of God or the truths of the Bible, but doubts as to whether their own personal rela-tions with the God in whom they pro-fess to believe, doubts as to the for-greeness of their sins, doubts as to their house of heaven, and doubts. their hopes of heaven, and doubts about their own inward experience. about their own inward experience.

No drunkard was over more in bondage to his habit of drink than they
are to their habit of doubting. Every
step of their spiritual progress is
taken against the fearful odds of an
army of doutts, that are forever lying
in wait to assail them at each favorable moment. Their lives are made
wretched, their usefulness is effectually
hindered, and their communion with
God is continually bracken by their God is continually broken, by their doubts. And although the entrance of the soul upon the life of faith does, in many cases, take it altogether out of the region where these doubts live of the region where these doubts live and flourish, yet even here it some-times happens that the old tyrant will rise up and re-assert his sway and will cause the feet to stumble and the heart to fail, even when he cannot succeed in utterly turning the believer best into the state of the state of the state of the best into the state of the

back into the dreary wilderness again.
"It seems strange that people whose very name of Believers implies that their own chiefest characteristic is their own chiefest characteristic is that they believe, should have to confess that they have doubts. And yet it is such a universal habit, that I feel if the name were to be given over again, the only fitting descriptive name that could be given to many of God's children would have to be that of Doubters. In fact, most Christians have settled down under their thoughts as to a sort of inevitable malady, from which they suffer acutely, but to which they must try to be resigned to which they must try to be resigned as a part of the necessary discipline of this earthly life. They lament over their doubts as a man might lament over his rheumatism, making themselves out as "interesting cases" of special and peculiar trial, which require the tenderest sympathy and the utmost consideration.

A NEW FORM OF DOUBTS.

"This is too often true even of believers who are earnestly longing to enter upon the life and walk of faith. and who have made, perhaps, many steps towards it. They have got rid, it may be, of the old doubts that once tormented them, as to whether their sins are really fergiven, and whether

Woman's Kitchen Friend This kitchen rack should be in every woman's home. You cannot afford to de your work another day without it. All the articles shown are household con-



veniences. Handles are black, and well finished. All regulation size and length. You can have this FRES, for a club of two new subscribers to Farm and Dairy, at \$1 each. Get the boys and girls to work securing two of your neighbors to subscribe. It will surprise you how easily this can be done. Address Circulation Manager, Farm and Dairy, Feterbore, Out.

they shall, after all, get safe to leaven; but they have not got rid of the string. They have simply shifted are saying, perhaps historian they are saying, perhaps historian a child of God through faith in Jesus Christ. I dare not doubt this any more. But then—"and this "but then" includes an intermediate array of deubts concerning most of the declarations and promises our Father has made to His children. One after another they fight with these promises, and refuse to believe them until they can have some more reliable proof of their being true than the simple word can have some more reliable proof of their being true than the simple word of their Ged; and then they wonder why they are permitted to walk in such darkness, and look upon them-selves almost in the light of martyrs, and groan under the peculiar con-flicts they are compelled to endure. SPIRITUAL REBELLION.

"Spiritual conflicts! Far better would they be named did we call them spiritual rebellions! Our fight is to spiritual rebellions! Our fight is to be a fight of faith; and the moment we let in doubts, our fight ceases, and our rebellion begins. I desire to put forth a vigorous protest against this whole thing. Just as well might I join in with the laments of a drunkard join in with the laments of a drunkard and unite with him in prayer for grace te endure the discipline of his fatal appetite, as to give way for one instant to the weak complaints of these enslaved soulis, and try to console them under their alavery. To one and the under their alavery, and the under their alavery, and which the Lord Jesus Christ has in store for them, and bessech enin store for them, and beseech. In store for them, and beseech, en-treat, and importune them, with all the power at my command, to avail themselves of it and be free. Not for one moment would I listen to their despairing excuses. You ought to be free, you can be free, you must be free.

free.
Will you undertake to tell men that
it is an inevitable necessity for God
to doubted by His children? Is it it is an inevitable necessity for God to be doubted by His children? Is it an inevitable necessity for your child-ren to doubt you? Would you toler-ate your doubts a single heur? Would ate your double a single heur? Would you pity your son, and condole with him, and feel that he was an "inter-esting case" if he should come to you and say: "Father I am such a doubt-er that I cannot believe I am your child, or that you really love me?" And yet, how often we hear a child of God excuse himself for his doubts by saying: "Oh, but I am such a doubter that I cannot believe in God's love that I cannot believe in God's love that it was not a doubter that I cannot believe in God's love shocked at it. You night your say, with a live complacency; "Oh but I am such a liar that I cannot held I am such a liar that I cannot help telling lies," and expect people to con-sider it a sufficient excuse. "In the sight of God, I verily believe

"In the sight of God, I verily believe doubting is, in some cases, as dis-pleasing as lying. It certainly is more dishonoring to Him, for it impugns his truthfulness and defames His character. John says that "he that believeth not God hath made Him a liar:" and it seems to me that hardly anything could be werse than thus to fasten on God the character of be-ing a liar! Have you ever thought of this as the result of your doubting .-I. H. N

A Place for Thread
Of the many disorderly things in
the home the work box is usually the
most so. I decided mine should be in most so. I decided mine should be in better order. I took a lath 24 inches long and placed nails with small heads about every inch along the entire length. I painted this white. I put three long nails in the wall near the sewing machine, placing the lath on these, which I also painted white. A spool was slipped over each nail on the lath; it is not stationary. If when sewing outdoors or in another room I am enabled to carry with me all I have, all colors and numbers, have no worry and my work box has have no worry and my work box has therefore improved by the use of this.



is childish and attractive, yet smart in the extreme. There is a long unbroken panel at the front, while at the sides and back the dress is made with a flounce. It includes a pretty little yoke, or chemisette, and quite novel sleeveg that can be made either in three-made either in threemade either in three quarter length.

Material required
for medium size is 61/4

for medium size is 6'y yds. 24, 4'; yds. 25, 2'4; yds. 24, 10; yds. 24, 10; yds. 24, 10; yds. 24, 10; yds. 26, 10; yds. 27, yds. 41 in. in. yds. 27, yds. 41 in. in. yds. 27, yds. 41 in. yds. 27, yds. 2

BLOUSE WAIST 6630



The pretty dressy blouse that closes at the front makes one of the features of the season. Here is a model that is closed a model that is closed invisibly and worn with a separate shield. This shield can be made with a Dutch neck, or with a collar as liked. Material required for medium size is 3½ yds 21 or 24, 3 yds. 32 or 1½ yds. 44 in. wide, with ½ ydd. 27 in. wide for the trimming.

42 in. bust, and will be mailed for 10 ets.

TUCKED SEMI-PRINCESS DRESS FOR MISSES AND SMALL WOMEN 6637.



ALL WOMEN 6637.
Semi-princess dresses made with trimming at the left of the front of the blouse, suggesting an opening at that point but which are really closed at the back, are novelties of the season. Here is one that is dainty and that is dainty and charming, especially designed for the thin material that can be tucked with success. It is finished with a straight straight flounce at the lower edge and this flounce can be either tucked or gathered.

Material required for medium size is 19 yds. 35 or 64 yds. 49 in. wide, with 14 yds. of banding. 35 yds. or 1500n, 5 yd. 18 for the chemisette and under sleeves. The pattern is cut for girls of 14, 16, and 18 years of age, and will be mailed for 0 ets.

BLOUSE WAIST 6451.



The blouse waist, waist which includes a chemisette, is a pretty one and is much worn this season. Here is a model that can be utilized both for the gown and for the search to the s separate

Material required Material required for medium size is 3 yds. 21 or 24, 2% yds. 32 or 1%, yds 44 in wide, with 1% yds. of tucked silk and 5 yds. of banding.

The pattern is cut for a 32, 34, 36, 38, 4

and 42 in. bust, and receipt of 10 cts.

-OU

Jul

PR PRINCE RICH! lands, w Parts at for stoc is a good well. Butures ar the decl cts, resp

COMPT started a of weeds ing well although We are which as STEPN Extra he

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corn is g silos. E high, and produce STRAT ally good looking 1 and the looki crop is le for use coming greater t

WINCH the early The past grass is e er contin

crop of c This is of Dundas c of corn ASHTO very pro ting hay, the beau is natura fare well will be short in and from erop. Ma many me In the n improvem

FARME the prin They mad spell has soon the straw wil Hay is a well, and

TURRIE haying. of are giving last year. of praise.

Neve

****************** OUR FARMERS' CLUB

Continuention included

PRINCE EDWARD ISLAND

PRINCE CO., PRINCE EDWARD ISLAND. RICHMOND.—All crops are looking well rith the exception of grain sowed on low with the exception of grain sowed on low lands, which suffered from too much rain. Parts are being reseeded to provide food for stock. Hay is above the average. It is a good year for turnips. Potatoes look well. Bugs are the worst for years. Part of the part

QUEBEC

COMPTON CO., QUEBEC.

COMPTON CO., QUEBEC.

COMPTON CO. RENTRE-Haying is well started and is a fair crop. There are lots of weeds this year. All the crops can looking well. Everything points a group, although many were blighted by row, although many were blighted by row, which are doing some damage.—H. d. C.

ONTARIO PRESCOTT CO., ONT.

STEPNEY.—Grain crops are very good.
Extra heavy pieces have been flattened by
the extra heavy rains. An abundance of
corn is grown as most of the farmers have
slios. Beef and pork are selling very
high, and the demand for all kinds of farm
weeduge is good.—A. G produce is good .- A. G

STORMONT CO., ONT.

STRATHMORE.—Hay is an exceptionally good crop. Oats and other grains are looking promising. Alfalfa is giving satisfaction, the first crop being harvested, and the second crop coming on. Corn and the second crop coming on. is looking well, and an excellent crop is looked for. Potatoes will be ready for use in two weeks. Pastures are be-coming short, but the milk flow is greater than at this time last year.—J. 8.

DUNDAS CO., ONT.

WINCHESTER .- Crops are fine. WINGHESTER.—Crops are fine. Some of the early grain will soon be ready to cut. The pastures are still good and the after grass is coming on rapidly. If the weath er continues fine we shall have a great crop of corn. Some of it is in tassel now. This is one of the best farming sections in Dundas county, and there is a great deal of corn raised for sliage.—G. H. S.

CARLETON CO., ONT.

CARLETON CO., ONI.

ASHTON.—Prospects for all crops are very promising. Farmers are busy cutting hay, which is a fine continuous ting hay, which is a fine continuous ting hay which is a fine continuous ting hay continuous to the continuous co short in some places. Corn is very fine, and from all appearances will be a great crop. Many of the farmers have silos and many more are talking of building one. In the near future we will see a great improvement in dairying.—L. K.

GRENVILLE CO., ONT.

FARMERS' UNION .- Oats and barley are FARMERS UNION.—Oats and barley are the principal grain crops this season. They made a good start, but the long dry spell has checked them. If we get rain soon the grain will be all right, but the straw will be short. Corn is doing well. Hay is a good crop. Potatoes are looking well, and pastures have been extra.—F. B.

HASTINGS CO., ONT.

TURRIFF.-Farmers are in the midst of haying. Crops are average. Grasshoppers are giving a good deal less trouble than last year. The turkey is getting its share of praise. A large number of them are

Never without a Bottle



d other Lameness. Keen it hand Br. B. J. KENDALL CO., Enosburg Falls, Vt.

being raised this year. Farmers are congratulating themselves on their increased acreage of wheat, as reports from the west came in. The potato crop is doing well. Potato bugs have been very bad. The potato bugs have been very bad. The by dusting a mixtude of fighting them is by dusting a mixtude of fighting them is by dusting a mixtude of green to 16 quarts of flour-over the plants when the down is on. It gives satisfactory results. Odd we is on. It gives satisfactory results. Odd potatoes are with the property of the potatoes are satisfactory. The property of the pr

PETERBORO CO., ONT.

OAK LAKE-Parmers began to look blue during the hot, dry spell. Every-thing was burning up. The rains have brightened them up. Everything has shot out nice and green again. Clover has is a heavy crop. Other hay is not so good. Corn, potatoes, and fruits are looking fine. Farmers are well pleased with incarly double from law years and also the care they give their glad to notice that the patrons are interested, and also the care they give their terested, and also the care they give their milk . I haven't had to send a pound back. —G. W. P.

NORTHUMBERLAND CO., ONT.

EDVILLE.—The apple crop is not very cromising. Few apples are to be seen or promising. Few applies are to be seen on the trees notwithstanding the great show of blossoms. Many of them have fallen from the trees after getting as large as marbles. The country here seems quite smaller for applie culture. Orchards are marbles to applie culture. Orchards are smaller for applie culture. Orchards of the old orchards bring the owners a good sum of money; some of them as much as \$1,000 a. year. The buyers are generally around before this time of the year. This year they are not seen.—S. H. WOUNDERS OF CONTRACTOR OF THE SECTION OF THE SECT

WOODVILLE.—Crops are loking fairly well. Hay was a good crop. Haying is still in progress. The root crop is doing better since the rain on the 10th, and has

A Welcome Visitor

"Farm and Dairy is a wel-ome publication in our home. The surprise to me is that every farmer does not avail himself of this means of getting information that must be of great help to him in his business, be he ever so clever at it."—J. J. Beaumont, Muskoka District,

en helped by scattered showers since se outlook for high grain prices is bright.

WELLINGTON CO., ONT.

WELLINGTON CO., ONT.
FERGUS—The weather has been warm and dry, but is cooler now. We had, a heavy rain a few days ago with high wind heavy rain a few days ago with selection of the selection of 18c,-W. A. M. OXFORD CO., ONT.

OXFORD CO., ONT.

WOODSTOCK.—There is a great shortage
of apples this year. Crops of hay, grains
and roots are splendid. Farmers have just
commenced haying. Fall wheat is ripening
rapidly and the yield will be large. Many
farmers expect 40 bushels an acre. Barley
and oats will be a large crop.—W. 8. R.

MUSKOKA CO., ONT.

GRAVENIURST.—Crops of all kinds are growing fine after the dry spell in June. crops of the spell in June. crops of the spell in June. crops. Old mendows are light. Having is in full swing. Hoeing mostly done. Cattle are doing well. Pasture good. Small fruits and wild berries are a good crop. While you are talking reforestation, do something in the way of protecting what nature is planting here.—B.

BRITISH COLUMBIA NEW WESTMINSTER CO., B.C.

NEW WESTMINSTER CO., E.C.

CAMP SLOUGH.—Haying is in full swing. The weather is good. Hay is excellent, as 800 and 800 an acre. Fork 15c. a. lb. live weight. Ducks. \$10.00 a doren. The spring wheat cannot be excelled for length of straw and large heads. Roots are looking good. Stock is looking well.—R. B. Q.

I enclose \$1 for my renewal to Farm and Dairy. I intend to have Farm and Dairy for 1909 bound. It is worth more than its weight in gold-Harland Dutch-man, York County, Ont.

HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Holstein - Friesdan Association, all of whose members are readers of the paper. Members of the Association are invited to send itoms of interest to Holstein breeders for publication in this column.

VALUE OF SHORT TIME OFFICIAL TESTS

During the year from Jan. 25 to Feb. 7, 1915, records for 150 cows have been accepted for entry in the Holatein-Friesian Advanced Register; seven of which were begun not less than eight months after the freshening of the cows making them, and six ware semi-difficial yearly or lacts. and six were semi-official yearly or lact tion records. Of the 137 ordinary record three were extended for thirty days. The averages by ages or classes were as fol-Forty-six full aged cows averaged:

Forty-six full aged cows averaged: age, 7 years, 4 months, 14 days; days from calving, 25; milk, 65;9 lbs.; per cent fat, 36;0 fat, 16;26; lbs. Ten senior four-year-olds averaged: age, 4 years, 9 months, 5 days; days from calving, 24; milk, 46;7 lbs.; per cent. fat, 339; fat, 15;168 lbs. Pour junior four-year-olds averaged: age, 4 years, 3 months, 6 days; days from 43;1; fat, 14,815 lbs. If the per cent. fat, 34;1; fat, 14,815 lbs. If the per cent. fat, 34;1; fat, 15,815 lbs. If the per cent. fat, 48;1; fat, 15,817 lbs.; per cent. fat, 34;1; fat, 15,817 lbs. The per cent. fat, 54;1; fat, 15,817 lbs. 495.7 lbs.; per cent. fat, 3.41; fat, 1.5827 lbs. Twelve junior three-year-olds averaged: age, 3 years, 3 months, 3 days; days from 3.51; fat, 12.992 lbs. Twenty-three senior two-year-olds averaged: age, 2 years, 9 months, 15 days; days from calving, 25; milk, 342.5 lbs.; per cent. fat, 3.49; fat, 1.934 lbs. Twenty-nine junior two-year-

11.394 lbs. Twenty-nine junior two-year-olds averaged: age, 2 years, 0 months, 29 days: days from calving, 46; milk, 22; 9 lbs., per cent. fat, 5.43; fat, 10.653 lbs. This herd of 137 animals, of which one half were helfers with first or second calves, produced in seven consecutive days 25, 25; produced for milk containing 1.653.379 lbs. 52,9844 lbs. of milk containing 1,855,379 lbs. of butter fat, thus showing an average production of each animal was 95.7 lbs. of milk containing 13,545 lbs. of butter-fat; equionism 13,545 lbs. of butter-fat; equipper day, and 15.8 lbs. of the best of commercial butter per week. Issue after issue, these official reports show averages around 56 lbs. of milk per day, with fat enough to produce around 5 lbs. of commercial butter per week, if it were made enough to produce around 5 lbs. of commercial butter per week, if it were made in considering these averages it must all to considering these averages it must all to considering these averages it must all. in considering these averages it must always be borne in mind that the herds average younger than any dairyman, unless a breeder of pure bred cattle, would be apt to have.

be apt to have.

Some dairy writers are inclined to assert that the short time official test is of no practical value: largely basing their opposition to it on the alleged fact, that

LAND PLASTER

TORONTO SALT WORKS Q. J. CLIFF, Manager.

the short time dash in no way indicates how well the dairy cow can hold out during her entire lactation period. In my own opinion, the most earnest opponents of the short time official test are those who really know very little about it, and of its effect upon those cow owners makof its effect upon those cow owners making use of it: for its value does not end
with the results attained in the testing of
the individual cows but is cumulative;
usually resulting in as great a development in dairy knowledge on the part of
the cow owners, as of productive capacity
in the cow herself.

During my nearly five years' term as
superinten-unt of Advanced Registry.

During my nearly five years' term as superinten- not of Advanced Registry, many thousands of these short-time tests have passed through my hands, and as I have passed through my hands, and as I have passed through my hands, and as I have passed the superintendent of the value of the tests than I had when first chosen to this office. Without it, thousands of Holstein-Friesian cows would have remained under the property of the superintendent of Holstein-Friesian owned that the superintendent of Holstein-Friesian owned and mondred of Holstein-Friesian owned on the property of the superintendent of the superinten blindly groping for means of improving their herds. I belive just as firmly in the semi-official long-time test, and advocate its adoption by all those who have acquired experience and practical dairy wisdom through use of the shorter test; but to so great an extent do I know that the short-time official test is a fairly reliable indication of the probable dairy capacity of a cow, that I advise all owners against the entry of any cow in the semi-official long-time test that does not prove her-self above the average in her short-time official work. To improve the which is the object of advanced r tion work, we must sort out t sort out the hest

tion work, we must sort out the best owns. when we was the sort of the sort of

The Full Percentage of Cream

Getting the full percentage of cream from milk depends as much upon the oil used to lubricate the separator as upon the separator itself. Gummy oil will cut the fine bearings of your machine, spoil its balance and waste good cream in the skim-milk pail.



STANDARD Hand Separator Oil

never gums, never rusts, never corrodes. It feeds freely into the closest bearings and insures the perfect lubrication that is essential to the free spinning of the bowl and the complete separation of cream from milk. It lessens the driving effort and lengthens the life of your separator.

One gallon cans. All dealers. Or write to

The Imperial Oil Company, Limited Ontario Agents: The Queen City Oil Co., Ltd.

Toronto, Monday, July 25.-The latest re-Toronto, Monday, July 25.—The latest re-ports from the west regarding the condi-tion of the crops, fully bears out what was stated in our last issue, viz., that there is ro reason for a pessimistic feeling as to the outcome of the harvest. The Imperial lank correspondents state that whilst there is considerable damage in some secthere is considerable damage in some sec-tions, others report an average yield, and the estimate of the total wheat crop is pinced at between 79 and 80 million bush-cis. Northern Alberta is expecting a fine harvest in most classes of grain, as are larged in most in the other provinces. For all most in the other provinces, the second of the control of the control of the control of the control of the provinces.

WHEAT WHEAT
Whilst the condition of the wheat crop
in the west, is causing a certain amount
of concern, there is nothing of the sort
apparent in regard to the condition of
the wheat crop in Ontario. It is generally
conceded to be in as fine a condition as
has been apparent for many years.
Kneets place the expected yield in the property
of the property of

less than 22,000,000 bushels. In the East-ern Provinces also the crop is reported in first class condition.

In Chicago trading is very strong, and at last advices September wheat closed at \$1.07%; December at \$1.09%, and July at

In all the continental centres, the mar kets were strong with an upward tendency. In the local wholesale market, dealers In the local wholesale market, dealers make the following nominal quotations in regard to western wheat: No. 1, Northern, 81.22½; No. 2, 81.19½; No. 5, 81.16½, at lake ports for immediate shipment: No. 2, Ontario winter wheat, 81.09 to 81.10, out-

On the farmers' market, fall wheat selling at \$1.12, and goose wheat at \$1.02 to \$1.03 a bushel.

COARSE GRAINS

to \$1.03 a busines.

There is a better feeling abroad in research is a better feeling abroad in research is in the better feeling abroad in research in the press are roughly business are roughly business are sufficient to be a satisfactory condition. Wholessate dealers in Toronto quote as follows: Canada western oats, No. 2, 46e; No. 5, 49c, at lake ports; No. 2, Ontario white, 59e to 41e outside; No. 3, 37e to 38e outside; 4to to 5e on track, Toronto, American corn, No. 2, 715e; No. 5, 70e. Toronto freights, battley, 50e to 55e; poss, 6e; to 56e; to help to be a bushel.

In Montreal wholesale dealers quote as follows: Canada western oats, 45°(c; Ontario oats, 46 a bushel in stors; poss, 51e to 50e; poss, 70e; to stors; poss, 51e to 50e; poss, 70e; poss, 70e; to 50e; poss, 70e; poss, 70e; to 50e; poss, 70e; poss, 70e

POTATOES AND BEANS

POTATOES AND BEANS
There is not so much of the American
product selling as was the case last week,
and prices are higher. New potatoes are
quoted at 82.40 to 82.50 a barrel in car
lots, and old stock is selling fairly well at

lots, and old stock is selling fairly well at 36 to 46e a bing unchanged in price, being Beans remain unchanged in price, being quoted at \$2 to \$2.10 for primes and \$2.15 to \$2.25 for three pound pickers On the farmers' market potatoes are selling at \$6 to 40 ca bags. The analysis of In Montreal potatoes are 76e in a isobbing In Montreal potatoes are firm at 45c to 50c a bag in car lots and 70c in a jobbing

Beans, three pound pickers, in ear lots, \$1.80 to \$1.85 a bushel.

WOOL

Prices remain unchanged Dealers quote washed fleeces at 19c to 21c a lb.; unwashed 12c to 14c, and rejects, 15c a lb.

HIDES

Hides are weaker: No. 1, inspected steer and cow hides, 9½c: No. 2, 8½c a lb; bulls, 7½c a lb; calf skins, 12c to 13c a lb; sheep skins, 36c to 35c; tallow, 6c to 6½c a lb. At country points dealers are paying as

Calfskins, 12c to 13c; sheepskins, \$1 to \$1.10; horsehides, \$2.75 to \$3; horsehair, 30c

In Montreal the hide market is als In Montreal the hide market is also weaker, and the expectation is that the prices will go lower yet in the near future. No. 1 beef hides, are quoted at 11c: No. 2, 19c, and No. 3, 9c a 1b.; calfskins, No. 2, 12c a lb; lambskins, 25c each.

EGGS AND POULTRY

EGGS AND POULTRY
Quotations for eggs continue firm and
steady, being 50 to 195 e a dozen in case
lots, Toronto. If the strike continues a
few days longer it is bound to have an appreciable effect on the market. On the
farmers' market chiefly new lajd eggs are
In Quebee provines some of the larger
dealers are engaged in organizing egg centrees, following the principle laid down by
Farm and Dairy, a few weeks ago, and
which is being so successfully carried out.
The Montreal market is feeling the effect of the rallway strike, and prices are

The Montreal market is feeling the effect of the railway strike, and prices are stiffening. Sales of straight receipts during the past week have been around 1% and 17½ and and 17½ and and oscen.

Second grade eggs are quoted mostly nominally at 12½ to 15 a dozen. Dealers do not cure to handle them to any ex-

tent.
Poultry prices in Toronto remain unchanged. Spring chickens, dressed, 20c to 25c a lb.; alive, 15c to 16c a lb.; live fowl, 12c to 13c a lb.; ducks, dressed, 17c to 18c a lb.; turkeys, dressed, 25c a lb.; year old turkeys, 15c to 19c a lb.

FRUIT AND VEGETABLES

FRUIT AND VEGETABLES
Trade is very active, but would be more so if the economic conditions to which reference has been made, were different. Wholesale prices for the various fruits and vegetables are as follows: raspberries, lie to 11c a box; Canadian cherries, S1 to 8125 a basket: Ted currants, 75c to 51 a basket: California plums, \$159 to 82 a crate; California peaches, 8125 to 8125 a box; water melous, each, 56c to 56c, Vegetable—Green peas, 46c a basket, Vegetable—Green peas, 46c a basket, Canadian cabbage, crate, 82; encumbers, basket, 56c to 15c etc. 25c a doz; tomatoes, 81.75 a crate; Canadian tomatoes,

\$1 to \$1.50 a basket; carrots, 40c a

lozen. On the farmers' market vegetables are the tarmers market vegetanies are selling at the following prices: Cabbages, 5c to 10c each; onions, \$1.40 to \$1.50 a bushel; lettuce, 4c to 5c a bunch; beets, 25c to 30c a dozen; green peas, 40c a peck; new earrots, 5c to 10c a bunch; cauliflowers, 15c to 20c each.

BREEDER'S DIRECTORY

Cards under this head inserted at the rate of \$4.00 a line per year, card accepted under two lines, nor for less than six months, or 26 insertic during twelve months.

ORNISBY GRANGE STOCK FARM, ORNSTOWN, P. QUIEBEC. — Importation and breeding of high-class Clydedales, a specialty. Special importations will be breeding of high-class Clydesd made.—DUNCAN McEACHRAN

RIDGEDALE HOLSTEINS.-For full particulars in regard to stock and prices, address R. W. WALKER, Utica, Ont.

SPRINGBROOK HOLSTEINS AND TAMWORTHS.—High-class stock, choice breeding.
Present offerings, two year old helfers, fresh and in calf. Young bulls. Five
Tamworth boars from Imp. stock, ready to wenn.—A. C. HALLMAN, Breslau, Ont.

ONE 2 YR. STALLION by Champion Right Forward, Imp. One 2 yr. filly by Barron Beau, Imp. Yearling stallions and fillies by that greatest of rires, Acme Imp., mostly all from Imported mares. Three (Imp.) 2 year old fillies just received. -R. M. HOLTBY, Manchester P. O., and G. T. R. Station: Myrife C. P. R. L. D.

CHERRY BANK STOCK FARM.—The home of High Class Record of Performance (or R. O. P.) Cows and Heifers. The average test of the herd is 4.12.—P. D. Mc-ARTHUR, North Georgetown, Queens

HAY AND STRAW

Reports of the hay crop, especially in the Eastern Provinces are distinctly en-couraging. In the Maritime Provinces there is a record crop and as there was bad weather in England for harvest-ing the hay it is altogether likely that there will be a brisk demand for choicer qualities on that market from this coun-

In the local market most of the old hay, No. 1 timothy, \$14 to \$15; new hay, \$13 to \$14; clover and clover mixed, hay, \$13 to \$14; clover and clover mixed \$11.50 to \$13 a ton; straw, \$6.50 to \$7.50

ton.

On the farmers' market, new timothy is selling at \$21 to \$22 a ton; clover and clover mixed, \$815 to \$51 stars in bundles, \$15 to \$15; loose straw, \$8.50 to \$9, and the selling and the size of the selling selling and the selling sel

MILL FEEDS

Prices for mill feeds are as follows: Manitoba bran, 820 a ton; shorts, 822 a ton on track, Toronto. Ontario bran, 826 a ton; shorts, 822 a ton, on track, Toronto. a ton; snorts, S22 a ton, on track, Toronto.
Montreal prices are: Manitoba bran, \$20
a ton in bags; shorts, \$22 a ton in bags;
Ontario bran, \$21.50 a ton in bags; shorts,
\$23.50 a ton, in bags.
Prices are stiffening somewhat owing to

the active demand from the States

DAIRY PRODUCTS

There is no difference in the price of utter on the local market. Supplies are oming in fairly well, and although in ome quarters there is considered to be a likelihood of a shortage on account of the present railway stringency the general feeling is that the difficulty will be smooth-ed over before serious inconvenience is

experienced.
Wholesalers make the following quota-tions: Choice creamery prints, 25c to 35c a lb.; separator prints, 30c to 35c idairy prints, 18c a lb.; ordinary quality, 15c to 15c a lb.; ordinary quality, 15c to 15c a lb.; ordinary quality at butter is selling at 25c to 25c a lb., and or-dinary quality at 15c to 35c a lb., and or-centery at 25c a lb.; are quelling best creamery at 25c a lb.; are quelling best creamery at 25c.

In Montreal wholesalers are quoting best creamery at 22½ c a lb.
Local dealers state that there is a steady market for cheese and new cheese is quot-ed at 11½ c a lb. for large and 11½ c for twins. Old cheese, 11½ o a c be. are: West-erns, 11e to 11½ a lb.; casterns, 19½ t lo

HORSE MARKET

There is nothing much doing yet in the horse market, although dealers report sales of a few car loads to different points in Ontario and the west. Prices rule high for good animals in all classes. Prices have ranged as follows:

nave ranged as follows: Heavy draught horses, \$290 to \$230. choice agricultural and general purpose horses, \$170 to \$290; medium quality, \$135 to \$160; drivers, \$125 to \$225; expressers \$150 to \$240; serviceably sound horses, \$45

LIVE STOCK

The live stock market is certainly feeling the effect of the strike, and buyers are not altogether jubiliant over the immediate prospects. Choice cattle were able to command very high prices and in fact occurrence of the command very high prices and in fact willing purchasers. Stockers and feeders from the northwest sold at very fair prices, from \$5 to \$5.25 a cwt. Many sheep and lambs were on sale and prices in regard to them were fairly easy. Hogs, which have been see-sawing in price for which have been see-sawing in price for a cwt. fed and watered, but the prices a cwt. fed and watered, but the prices a cwt. fed and watered, but the prices being quoted on the market as high as \$10 a cwt. fed and watered, but the prices current throughout the week showed no higher average than \$52.0 to \$57.0, fed to \$57.0, f

Butcher cows -Choice, \$5 to \$5.50; 84.25 to \$5.25; ordinary quality, \$3.50 Heavy feeders-Choice, \$5.25 to \$5.60; or dinary quality, \$3.50 to \$5.

Stockers-Choice, \$4.50 to \$5.

Stockers-Choice, \$4.50 to \$5.25; ordinary quality, \$5.25 to \$4.25.

Canners-\$2 to \$2.50.

Milch cows-Choice, \$50 to \$65; medium, \$30 to \$40; springers, \$40 to \$55. Calves—\$3 to \$7.

ABSORBINE

the nair, or laying one had dealers or de-livered. Horse Book 5 D free. ABSORDINE, JR., (mankind, 1,00 bow-tie, For Strains, Gost, VariocaeVeins, Var-locetes, Hydrocele, Prostatilis, kills pain.

W. F. YOUNG, P.O.F., 123 Temple St., Springfield, Mass. 1-YEANS Ltd., Boutreel, Canadian Agents.

Sheep—Ewes, \$3.75 to \$4.40; rams, \$3 to \$3.40; lambs, \$7.50 to \$8.50 a cwt. Hogs—f.o.b., \$9.25 to \$9.40; fed and watered, \$9.60 to \$9.70. MONTREAL HOG MARKET

Montreal, Saturday, July 23rd. — The trike on the Grand Trunk Railway inter fered considerably with the market for live hogs, several cars being stalled on way to Montreal, and a large number way to Montreal, and a large number of shippers were unable to get their stock in to market at all. The scarcity of sup-plies caused a firm market, and prices were advanced on the selected lots, as high as \$10.25 a cxt. being paid for this grade, withough some lots were picked up at Dread-hops were firm and the demand was more than equal to the supply, prices in consequence being advanced all around, fresh killed abattoir stock selling as high us \$14 a cwt.

as \$14 a cwt

EXPORT BUTTER AND CHEESE

Montreal, Saturday, July 23rd.—Receipts of cheese into Montreal this week were decidedly smaller than usual; the strike on sidedly smaller than usual; the strike on the Grand Trunk Railway is largely re-sponsible for the falling off. The total for the week amounted to barely 80,000 boxes, whereas we should have received about 100,000 boxes in the ordinary course of afairs. A large number of the factories along the line of the G. 7 R. have succeeded in getting their che-se into Mon-treat, some by boat, and others by the C. P. R. but still there must be a large quantity of cheese helped considerably to said feet the market this week, and prices were well maintained throughout the country as fen the market this week, and prices were well maintained throughout the country at the level reached last week, as high as He having been paid at Picton for cheese. This was the high water mark of the 19% and 19%

The market for butter is firm this week The market for butter is firm this wesk owing to the small quantity coming in from the country, and prices are steady, shoice Eastern Townships creamery being quoted at 22½ to 12½ e a lb., with ordinary finest from the other sections at 22½ e a lb. The demand is largely for home trade and for speculative purposes. There is nothing doing just now for export.

CHEESE MARKETS

Stirling, July 19.—735 boxes offered; 565 sold at 10%;c; balance refused 10 13-16c. Peterboro, July 20.—3076 boxes of cheese offered; cheese sold rapidly; highest price.

Madoc ,July 20.-700 boxes of cheese board ed; 10% bid; no sales. On account of the strike factories may sell before next board

if shipping arrangements can be made.

Brockville, July 21.—1180 boxes of white and 1670 boxes of colored offered: 200 boxes of white and 225 boxes of colored sold at 11c. Kingston, July 21.-628 boxes of white

Kingston, July 21.—623 boxes of white and 600 boxes of colored cheese registered. Sales at 10%c and 10 15-16c; nearly all the stocks were cleared out. Vankleek Hill, July 21.—1712 boxes of cheese boarded; price offered 10 15-16c; all

Winchester, July 21.—235 boxes colored

whethester, July 21.—25 boxes colored at 18th white were registered; 10% offered for colored and 13the for white for the white sold. Ottawa, July 22.—1600 boxes of cheese boarded; 44 white and 19% for colored. Alexandria, July 22.—950 boxes of cheese for the colored at 10.15 fee for white and 19% for colored. Alexandria, July 22.—950 boxes of cheese offered. All white. All sold at 19%. 10% of the colored at 10.15 fee for white and 19% for colored. All 19% and 19% for colored and 150 fee. No sales. 2.—98 colored and 150 fee for the cheese offered. All sold at 19%. Pictor, July 22.—16 fastories boarded 500 boxes, all colored. All sold at 19% fee for the cheese offered white all sold at 11%. Kemptyille, July 22.—12 factories boarded 400 boxes of white and 367 boxes of colored, selling at 10.1346.

Cornw sold at 10 15-16c Londo 195 boxe Water 8500 at St. Hy Canton

Jul

THE system and the Septembe a double the chee pearance for in t been offe for each making ticular i prizes ar of section and all i London,

A POP trivial the to go la sprain or inconveni ious. All is to be some effic years one a horse Kendall's who owns Spavin C even wor stores and excellent on the H be had fr for it to t burg Fall

> Renew SECU

Secy. K

MAK Out

This vo on fine and is taining ficent drawin plates special feature being a logical appears for the and ori the gre teacher or gene

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Price, pre BO

THE RU

PETERB

Cornwall, July 23.-4131 white offered. All old at 10%c., and 587 colored, all sold at ld at 15-16c.

London, Ont., July 23.—1229 boxes offered; 25 boxes colored, sold at 10%c. Watertown, N.Y. July 25.—Cheese sales,

Wateriown, N.Y. July 25.—Cheese sales, 8500 at 13½c. 81. Hyacinthe, Que, July 23.—700 hoxes of cheese sold at 10½c to 10½c. Cowaneville, Que, July 23.—135 hoxes of cheese offered 54 hoxes of cheese sold at 10½c; 56 boxes at 10½ and 29 hoxes at 10½c; Canton, N. Y., July 24.—2000 boxes of cheese offered.

GOSSIP

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From the report of W. F. Stevens. Secretary of the Aprehire Breeders' Association. The following clippings from two leading United States Live Stock journals dealing the Live Stock journals and the Countries contribut dealing the Live Stock journals with the Live Stock journals and three countries contribut dealing the Live Stock journals with the Live Stock journals and the Live Stock journals of the Live Stock journals with the Live Stock journals of the Live Stock journals with the Live Stock journals of th ry of the ayrandition.

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