

VOL. XXVIII

NUMBER 43

RURALTOME

PETERBORO, ONT.

OBER 28. 1909



COLONY POULTRY HOUSES USED THE YEAR ROUND AT MACDONALD COLLEGE, QUE. The three main essentials of a satisfactory poultry house are that it shall be dry, free from draughts, and be one in which there is no smell of hens. The colony houses illustrated have these characteristics, and other advantages as well. Dryness and fresh air are ensured by a loose board ceiling, over which straw is put, and a gable window opening into the straw loft. These houses provide suitable shelter in winter time, and are sufficiently cool in summer. They are single boarded only, except where the roosts are placed, yet out of sev-

eral hundred birds wintered in these houses not a comb was frosted, the reason being that though the houses are cold, they are dry.

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Is it Hard to Turn?

Is the Bowl Out of Balance?

Is the Spindle Sprung?

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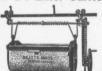
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why they are better. We also build Cow
Stanchions, Steel Stalls, Hay Carriers,
Forks and Slings.

BEATTY BROS., FERGUS

was sold recently at the rate of more than \$3,000,000 an acre exclusive of the building upon it. This is a fair sample of how the value of land in-creases in our larger cities. This lot, it is said, was originally obtained by the Lawlor family many years ago in payment for a board and laundry bill. To many farmers this example bill. To many farmers this example dreamed that city land are rever-dreamed that city land are rever-such a price. But here it is in cold figures, and there is land in Toronto held at a higher price even than that. than that

than that.

The same is true of every city and town in the province, the difference being only in degree. The larger and more populous the city the greater will be the value of the land. In New York and Chicago there is land 10 times as valuable as in Toronto.

The farmers of Ontario have all along held that they were the principal land owners of the Province, but they are not. They are so far as area is concerned, but most farm land is in itself of comparatively little

is in itself of comparatively little value. Let any of those who have



The Lawlor Lot, Toronto

Sold recently at the rate of more than \$3,000,000 an acre, exclusive of the build-ing upon it.

in the past opposed any proposal to raise all taxes from land values, sit down and figure how much farm land in their township it would require to in their township it would require to tuy one acre of such city land as the Lawlor lot. In many cases they will find that it would take more than all the farms in the township, improve-ments and all. It is to the cities and towns therefore that we must go to find the land owners of the province, if we would measure land by its

And how many farmers have any conception of the extent to which they themselves, taken as a whole, have contributed to the production of these enormous city land values?
The value of land, apart from the improvements on or in it, is not the product of the land owners inthe product of the land owners in-dividually, but the collective product of the whole community. And the farmers are a part, and a most es-sential part, of the community. Imsential part, of the community. Imagine a community without any rural population. The cities draw their very life blood from the country. The country could get along in a way, without the city, as in the case of pioneer communities, but the city owes its very existence to the country.

try.

The land value taxer says that as the value of the land, exclusive of improvements, is the collective pro-

provincial land value tax would do so to a much greater extent. Suppose so to a much greater extent. Suppose that a special provincial tax on land values were levied for the purpose of providing better roads, electric car service, telephones, etc., for the rural districts, what an evening up effect it would have. Wherever had the received the price of land is prevented to the price of land is proven to the price of land in the price of laid increases, or is prevented from declining. The taxalion of the valuable land in the cities and vented from declining. The taxation of the valuable land in the cities and or the valuable land in the cities and twoms and the expenditure of the money in giving to the country more of the conveniences that are now al-most exclusively confined to the city areas would pull down those enormous areas would pull down those enoration, values in the cities and embrace the value of rural land to a very large extent. Such a policy would do more than anything else that was ever proposed towards solving the problem of keeping the boys and girls on the farm. If we would do this we must farm, the would provide the control of the sum of the country life more attractive. This can be sufficiently as the country of the country form only by giving to the advantages of collections of the advantages of collections of the taxation of land values. The first step towards the desired

of the taxation of land values. The first step towards the desired goal is to get the municipal and country taxes transferred to land values exclusively, and this the proposed amendment to the assessment act, which is now being petitioned for ly over 200 municipal councils in Ontario and which petition was outlined in Farm and Dairy on October 14th, would make possible. Every farmer in the province should exert every effort to further this movement A. in the province should exert every effort to further this movement A provincial tax as above outlined will seen follow.—L. B. Walling, Sec. Single Tax Association, Toronto.

Investigating Hog Disease

As several outbreaks of a disease which is either hog cholera, or which resembles it to a remarkable degree. resembles it to a remarkable degree. have recently occurred in garbage fed bogs in the vicinity of Canadian towns and cities, and as it has been quite impossible to trace the source of infection in any of these cases, the Live Stock Department of the Dominion Department of Agriculture is entrangle in making. engaged in making a careful pathological investigation with the view of being able to reach a definite decision as to the exact nature of the malady.

malady.

Some people have thought that log cholera might be caused by our log cating scraps of pork and bacon imported from sections in the United States where hog cholera is prevalent or that possibly the disease might be brought in on the packages. The live stock division at Ottawa has not sufficient exact inforgraption yet for sufficient exact information yet to enable it to say for a certainty whether or not the disease can be transmitted by such channels. These points will probably be investigated.

The following persons have recently been fined for violations of the Fruit Marks Act, on complaints laid by the Dominion fruit inspectors: R. O. Konkle, Beamsville, Ont.; Wm. Nash, Stony Creek, Ont.; S. Overholt, Jordan, Ont.; Lougheed Prost. Clarksburg, Ont.; Geo. Dyce & Co., Monteal, Que.; D. Hanniwell, St. Davids, Ont.; T. S. Vipond & Co., Monteal, Que.; D. Hanniwell, St. Davids, Ont.

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It is desirable to mention the name of this publication when writing

Each Week



Vol. XXVIII.

FOR WEEK ENDING OCTOBER 28, 1909.

No. 43.

Some Comment on the Split-Log Drag

John Jackson, Lincoln Co., Ont. UCH has been said and published during recent years about the merits of the splitlog drag for keeping clay or earth roads in proper shape. And it is hardly possible to say too much in favor of the split-log drag, which is one of the most useful implements introduced in recent years, especially where the small cost of it is taken into consideration.

Simple as it is in order to get best results, much depends on the construction of the drag. The man that uses it is another important factor. Two men may take the same make of plow: the one will do excellent work, the other will do work of a very inferior character. To make a good job of anything it is necessary to start right. This is well illustrated in plowing. If the first furrow is straight, it is an easy matter to keep all straight. If the first one is crooked and uneven it is so to the end.

ERRORS IN ROAD MAKING

Let us consider a few of the prevailing errors most common in road making. The turnpikes in most cases are laid out too wide. Crooked ditches so commonly found give an uneven width to the road bed, causing it to grade up higher in the narrow places.

The dimensions as I have seen them given for making the split-log drag call for too wide a drag. A turnpike to be in the best condition possible, must have a good even round or crown. A long drag can have no longer bearing on a round surface than a shorter one. When one end is down in the ditch, the other is up in the air and so the ex-

tra length only hinders the proper working of the machine. A fairly wide turnpike may be all right where travel is congested that is if work enough can be put on it to round it up properly. But a narrow roadway rounded up is much preferable to a wide, flat one, or one simply with ridge up the centre with a flat on each side, which latter is not uncommon. On such roads the water has to soak away in the road bed instead of running directly off into the ditch.

THE SECRET OF GOOD ROADS

A deep ditch is not necessarily as essential as it is to have an even grade with open outlets so that surface water cannot stand in the ditches. In fact herein lies the secret of keeping a road in good shape.

In laying out a new turnpike it is better to start it on the narrow side rather than to be too wide. It is easier to widen it out in working, than it is to narrow it. On a model clay road in

the nearby vicinity the turnpike is nineteen feet between outside of ditches; this seems all right for width. At all events, for all ordinary roads, concessions and side lines, 20 feet fom outside to outside of ditches should be the limit. Some will claim that to be too narrow on account of danger in meeting autos, etc., but remember that to round up this width requires but a small ditch

only, about the depth of a plow furrow. There is no danger in case of emergency to drive across it. As we widen the turnpike, we must deepen the ditch. A 24 foot turnpike must have a ditch twice the size of one 2 feet wide and it will take twice the work to make and keep it in shape.

GRADING WITH THE DRAG

The regular road machine is perhaps the proper thing with which to grade up the road although some with a good deal of experience in road-making, too, will contend that a turnpike can be made as good and as cheaply with a splitlog drag as with a regular road grader. Be that as it may, I have seen an excellent turnpike made right out the rough with the split-log drag; but

If the turnpike is laid out too wide and the ditches are crooked it is unwise to waste any more work on it while in that shape. If necessary, narrow the roadway and straighten the ditches by plowing, throwing the furrows outward. Or start anew by setting stakes; set them straight and work to them. The work will pay well. The road will grade up evener and keep in better shape. The looks alone are more than worth the extra pains taken to make the ditches straight and it will be an object lesson for others to profit by.

The illustration shows a road in the Township of Clinton near Beamsville turnpiked up from the flat. The work was done entirely with the drag shown, by Angus Stewart and Mr. Comfort. This drag is faced with strong iron in front. With two teams and two men riding it it rolls up this heavy clay about equal to any road machine.

GOOD ROADS AT SMALL COST

A properly kept clay road may be very bad for a little time each year. But for about nine months

of the year it is really better than the average fairly well kept macadamised roads. The cost of keeping up all the roads in a Township, side lines and concessions by means of the split-log drag would not exceed the cost of one macadamised road through the township. This applies particularly where the stone has to he hauled some distance. The foregoing would not apply to all parts of the country with the same force, such as where there is plenty of good gravel at convenient points, nor would it apply so aptly in the case of a very light sandy road.



A Road That Was Graded Up in 1989 Entirely With the Split-log Drag

The possibilities of the split-log drag are well illustrated in the photo reproduced above. This road in the township of Clinton, near Beamsville, Ont., was turnpiked up from the flat by means of a split-log ——Photo by J. Jackson.

where they do excel is in keeping a road in proper shape. The drag that we use has three blades instead of two. This is an improvement. Compared with the two blade drag, it is like a jointer plane to a draw knife. Our drag is made of material 2 by 8 inches; 5 feet 4 inches long, the pieces being placed two feet apart. They are shod with iron plates in front.

It is better not to have the drag too heavy; weight can be added if necessary. If a road is once properly graded it may be kept in good shape for from five to ten years without regrading with road machine. Drawing the drag on the proper angle will keep up the round of the road to counterbalance the natural tendency to flatten out. The road should be dragged often enough, either when very wet or when mellow, so that it will smooth up nicely. The turnpike must be kept free from grass or the machine will not take a proper hold.

Diseases of Horses' Feet-Founder Dr. H. G. Reed, V.S., Halton Co., Ont.

Laminitis or founder is one of the most serious diseases from which the horse is liable to suffer. It is an inflammation of the soft tissues of the hoof which unite the external horny hoof to the internal pedal bone. An acute attack of this disease causes most intense pain and suffering to the patient. In inflammation of any tissue relief is always experienced to a greater or less extent when swelling occurs. It will readily be understood that in the case of a horse's foot swelling is impossible, enclosed as it is in an unyielding hoof and the result is in most cases excruciating

CAUSES OF FOUNDER

The most ordinary causes are over exertion, hard driving, especially on hard roads, over-feeding of heating grain as wheat or peas, chills and some-

SYMPTOMS

If both front feet are affected the animal will be almost unable to move but will stand with his hind legs drawn forward under the belly and the fore limbs extended forward in order to throw the weight of the Lody as much as possible on the hind legs. If compelled to move he will lift his feet with great difficulty and will sometimes groan with pain, while the body will often be wet with sweat. It will be almost impossible to make him move backwards and if he does so will throw the weight of the affected feet on the heels. Often the patient will lie down and it is difficult to make him rise.

TREATMENT

Gentle purgatives should be administered if the pain is intense. Opium or morphine should be given and the feet should be kept in warm poultices until relief is experienced. In the great majority of cases of this disease, it will be well to employ veterinary assistance as serious conditions often follow a case which has not been properly looked after and which not only renders the horse useless for months but will leave him with more or less deformed feet for the rest of his life and as a consequence reduce his value very much.

Winter Fattening Sheep

From "Sheep Husbandry in Canada."

The principle of avoiding extreme changes of diet observed by all careful feeders, should be strictly adhered to when the housing season arrives. The daily feeds of hay and grain for a few weeks before winter seals up the ground and renders pasturing unprovidable is a fine preparation for complete hand feeding. As the rape, lucerne or whatever outside crop has been the chief diet fails, roots may be gradually substituted. The hay will have to be increased to all the lambs, and the grain ration may be gradually augmented as well, The chief thing to aim at is to keep the feeders gaining and thus paying for their diet as they go along.

The selection of a grain ration is a matter depending upon the market and the crops grown at home. It is generally wise to avoid purchasing feed if it can be satisfactorily raised on the farm. In planning the sowing of the different fields of the farm in spring the fattening lambs should be provided for as far as is consistent with the suitability of the soil and other conditions.

Oats are peculiarly suited to sheep feeding. This grain is nourishing and safe to feed; it will go well with other grains, and as a crop is easily grown, two parts oats, one part peas and one part bran is a good ration for sheep of any class. Corn substituted for the peas answers well. Towards the end of the finishing period the heavy part of the ration may be increased to fully three quarters by weight. Oil cake is highly valued by many sheep feeders. It may be substituted for the bran, when the proportion of heavy grain should accordingly be diminished. From a half a pound to one and one-half pounds of grain per head per day according to the ends to be attained constitutes a fattening ration, when the coarse fodder used is fed liberally and of good quality. The practice of feeders differs with localities. An extensive feeder, Mr. Thos. Shillinglaw, in Huron county, who buys in lambs and sheep to fatten, in some seasons uses rape and grass as the chief ration. Until the housing season arrives no grain is given, but after that date clover hay and grain are fed and the flock allowed on the rape one hour twice daily until about Christmas or until snow buries the feed. The sheep thrive finely on this diet, and are sold as soon as the rape feeding is finished, as it has been found that satisfactory gains are difficult to secure for some weeks after the rape is done. The grain ration used usually consists of a mixture of oats and peas, oats and corn, and sometimes barley is added. About one pint of grain per head per day in two feeds is the usual rate of feeding. Lambs weighing 90 pounds in October 1st, weighed about 110 pounds at Christmas. These weights constitute the average of 600 head.

In North York, Mr. Robert Somerville raises and feeds about one hundred ewe and wether lambs. In the fall grass pasture is the chief dependence, but either rape or kale is provided also. When taken from the fields lucerne hay and pulped turnips are liberally fed, and a grain ration of oats and barley or peas is commenced at the rate of one pint per day for each animal in two feeds. The lambs are usually finished in January, when sold, weighing about 120 pounds each. The breeding flock consists of Grade Oxford ewes and pure bred Oxford rams. A further discussion of foods occurs elsewhere in this bulletin.

It is of the first importance that for the well-doing of any class of live stock the animals be comfortable. Unless proper precautions are taken sheep are almost sure to be more or less infested with ticks and perhaps the more minute form of vermin lice, a more irritating insect than the former. To rid sheep of these pests they by the records, and their mating with good bulls of decided dairy descent would give certain results, better cows in every way, without such glaring difference as in this case where the yield of two fairly good cows is more than the total yield of five poor ones.

Feed and Care of Cows

G. H. Blair, Carleton Co., Ont.

The financial success of the dairyman will depend largely upon his ability to feed his animals to profit and advantage. No set rule can be laid down as to what the exact rations of a dairy cow should be. This will depend on the feeds the farmer has at his disposal, and the cheapness with which he can procure those which he does not possess. In every case he should raise all is own rough fodder and as much of the more concentrated foods as he can.

As regards the different foods, our experience has been that ensilage is the cheapest and most economical bulky food at the disposal of the Canadian farmer. He should also Lave at his command plenty of clover hay and roots, mangels preferred. In most cases also oats and some barley can be grown in sufficient quantities on small Canadian farms.

THE DAILY RATIONS

These feeds, with the addition of some bran, which we have to buy, constitute the rations, which we have fed to our cows throughout the winter. We have no fixed standard ration which



Sheep from a Flock that has been Very Successful at Local Fairs

H. and N. Allin, of Durham Co., Ont., who own the sheep illustrated, exhibited at seven fairs this fall. and out of 46 first prizes offered, they captured 43, besides seconds and thirds. They have also taken the flock prize wherever show the seven from the contract of t

should be thoroughly dipped with one or other of the reliable commercial preparations, which not only destroy the vermin but clean the skin, reducing irritation and unrest to a minimum.

23 Cows or 60 Cows, Which?

C. F. Whitley, in charge of Records, Ottawa

Some of the September records received from members of cowtesting associations show further remarkable variations in different sections of Ontario and Quebec. It is the exception in the Ontario associations to find less than 600 lbs. of milk or 20 lbs. of buterfat as an average yield for the 30 days. In Quebec associations the average yields are almost all lower, though one or two are well up, even to 700 lbs. milk and 26 lbs. fat. One association in Quebec has a total production from 28 cows of 17,800 lbs. milk and 775 lbs. fat, while in another Quebes association just a little less than that is the total production of 60; the 60 cows average less than 300 lbs. of milk.

Twenty three cows in one case, 60 in the other, which kind of a cow would one rather keep? What glowing possibilities are indicated here? Most likely the 60 cows could be made to give better yields if fed better.

The selection of the best individuals as revealed

we feed to the cows, as different cows require different quantities of food and what each will consume is a matter of study and determination for the feeder himself. We aim, however, to feed a daily ration of about 25 lbs. ensilage, 20 lbs. mangels, 10 lbs. hay (clover) and 5 to 6 lbs. of a mixture containing one part barley to four parts oats, with the addition of a pound or two of Lran, to an Ayrshire cow weighing about 800 lbs., when oilcake can be had at a reasonable price, we procure a little of it and feed onehalf pound a day to a cow. This ration is fed to cows in full milk, and if she is seen to leave any uneaten food in the manger, her bulky food is decreased and her meal ration left unchanged. The cows are fed half their hay the first thing in the morning; after milking they are given their ensilage and ground feed. About 10 o'clock the full daily ration of foods is fed, and from then until five in the evening they are left practically undisturbed. Then they are fed their ensilage and hay and last of all the grain by itself. We find that the cows are less restless when not fed at noon as their period of digestion is not broken into and they appear to respond by giving a larger yield of milk.

Some city milk dealers have an aversion against milk from ensilage-fed cows, claiming that that milk is tainted, but as the opinions of many butthe m
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ter makers and dairymen show that there are no bad results from the use of this food, we cannot but say that ensilage may safely be fed to all dairy cows without injury to the quality of the milk. Turnips, however, have a tendency to impart their flavor to milk, especially if fed in large quantities or soon before milking. However, if fed in moderation immediately after milking there is little danger of contaminating the milk.

Regarding the general care of cows in the stable the main point to emphasize is to keep the animals clean and allow them a considerable amount of exercise. Treat them kindly, as the dairy cow is a sensitive machine working under forced draught, as it were, and any excitement that tends to agitate her nerves cannot help but be detrimental to the production of milk.

Control and Extermination of Weeds

From "Farm Weeds in Canada" In adopting a method of extermination of a weed, the nature of the plant and its habits of growth must first of all be considered. Some experience is necessary to know the best time to work certain soils or to deal with special weeds, as well as to recognize them in all their stages. Some weeds, Russian Thistle and Stinkweed, for instance, have a very different appearance when young and when mature. No general rule can be given, as the treatment must vary with diffferent districts, different soils and different climatic conditions. What may be successful in one place may fail in another.

Annuals may be eradicated from land, however badly infested it may be, through any method by which germination is hastened and the young plants destroyed before they produce seed.

Biennials must be either plowed or cut down before they flower. Mowing at short intervals in the second year, so as to prevent the development of new seeds, will clear the land of this class of plants; but a single mowing will only induce them to send out later branches, which, if not cut, will mature many seeds. Where plowing is impracticable, such plants should be cut off below the crown of the root.

TREATMENT OF PERENNIALS

Perennials are by far the most troublesome of all weeds and require thorough treatment, in some instances the cultivation of special crops, to insure their eradication. Imperfect treatment such as a single plowing, often does more harm than good, by breaking up the rootstocks and stimulating growth.

For shallow-rooted perennials, infested land should be plowed so lightly that the roots are exposed to the sun to dry up. For deep-rooted perennials, on the other hand, plowing should be as deep as conveniently possible. The nature of the land must determine the depth of plowing. In light or gravelly soils shallow plowing may be preferable as deep plowing might interfere with the mechanical texture of the soil, which is so important in the storing of moisture.

The rootstalks of some perennial weeds are very persistent. Small sections or cuttings from them will quickly take root when they are distributed by plowing or cultivation. Where such persistent perennials have become well established it is usually advisable to adopt the most convenient method of cultivation that will bring the rootstalks to the surface. They should then be gathered and burnt or otherwise destroyed. Most perennial weeds will, however, succumb to continued thorough cultivation that will prevent the growth of leaves.

Plants take in most of their food through their leaves. Perennial plants, which live for many years, have special reservoirs where some of this food, after elaboration, is stored in such receptacles as bulbs, tubers and fleshy rootstalks. The first growth in spring, particularly flowering stems, is produced mainly by drawing on this special store of nourishment. Plants are there-

fore in their weakest condition when they have largely exhausted their reserve supply of food and have not time to replenish it. The stage of growth, then, when plowing will be most effective is when their flowering stems have made full growth but before the seeds, which would be a source of danger, have had time to mature.

Prince Edward Island a Source of Seed Supply

T. G. Raynor,, Seed Division, Ottawa, Ont.

Having spent some ten days at the Leginning of the harvest among the farmers and on various farms in Prince Edward Island this summer, some observations on this island, as a source of seed supply, might be of passing interest.

I know of no district where many of the farm seeds could be produced Letter or purer than on this island. This is made possible first by each farmer practically possessing a threshing outfit of his own. It is usually run by a two horse tread power, which in time will largely give place to the gasoline engine as a knowledge of how to run them properly is obtained.

The soil and climatic conditions are capable of producing a good quality of seed of the cereal grains such as oats, wheat, barley, and especially potatoes. There are numbers of farmers who are willing to pay the price necessary to grow such

is growing in favor among the Island farmers and elsewhere, wherever it is tried. This system is to plow up the meadows very shallow soon after the hay crop is removed and work it more or less until it is plowed more deeply a second time in the fall. In some cases, as when prepared this way for potatoes, one plowing and cultivating in the autumn is sufficient. It is manured the next spring and the potato seed plowed in. This preparation of sod land for crops gives the cleanest as well as the best crops grown. The same plan, it will be noted, is largely used in the fall wheat districts in Ontario, only the stable manure is plowed in and the plowing is done more deeply than is usual on the Island. The average rotation in use on the island is a five or six year one in duration, three and four years of which it lies in meadow. A shorter rotation would doubtless handle some of their annual weeds better. Hemp nettle, spursey and wild buckwheat are very common in the crops. With a good fanning mill most of their farm seeds could be sent out free from weed seeds. The Island seems to be free, practically, of wild oats, which is a great

The perennial sow thistle is, however, getting a wide distribution. Not many seem to be very much alarmed about its spread or the degree of injury it is working. It may be in their loamy



A View of the Corn Field, taken August 20th, 1909, on Mr. Alex. Hume's Farm

Corn has come to be the main fodder crop of all dairymen, and is extensively grown by our best dairy farmers. The illustration shows but a part of the 25 acres of ensiling corn grown by Mr. Alex. Hume, of Northumberland Co., Out., whose farm is one of the competitors in the Dairy Farms Competition.

seed grain if only they can get a paying market. By paying the price, I mean that there are a number of farmers there who will select some of the best plants, will use a breeding plot and will be careful to keep the seed from mixing in the field and in the barn. There was evidence of this while judging in their field crops competitions in oats, wheat and barley. In a number of cases, the seed used for these competitions was obtained directly or indirectly from a member of the Canadian Seed Growers' Associations. Some have been selecting their seed for eight and nine years. Quite a large percentage of the prize winning fields were sown more or less with seed selected from such sources. One field of oats secured as high as 97 points out of 100. Where so many of our farmers are growing mixed crops and depending upon a change of seed from year to year in Ontario, it might be wise to try the Prince Edward Island goods to keep the sources of seed supply pure.

It is true that the Island has its weed problem, but not to the same extent in range or in quantity as obtains in most other countries. They have plenty of Couch grass, but it doesn't seem to be so persistent in its growth of root stalk, for it seems to be quite easily handled through a system of cultivation. This system of cultivation

soil, which obtains pretty much over the Island, that it, like Couch grass, may not prove so vigorous as it does in heavier soils.

The Island is rejoicing in a good, all round crop this year. The hay crop was perhaps more than an average one, as there was an unusual amount left for timothy seed, of which there will be some splendid seed for export. The cereal crops, too, were above the average as were the root and potato crops. The promise for potatoes was never better. There are some very large yields of good quality, McIntyres, the favorite late variety, being most prevalent :

Many of the Island farmers have something to learn about stock breeding. As elsewhere the breeding has been very much mixed so that a lot of inferior stock obtains. There are notable exceptions, however, and some good grade dairy herds are to be seen.

The needs of the Island farmer as summed up by an outsider might be summarized as a shorter rotation; more clover and a trial of alfalfa; a better arrangement and massing under one roof of outbuildings; more attention paid to breeding stock and greater co-operation in methods of handling farm produce. The Island farmers would unanimously say, give us a tunnel to the mainland as a panacea for all our ills.

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FARM AND DAIRY PETERBORO, ONT.

Alaska-Yukon-Pacific Exposition Live Stock Exhibit

For over two years the eye of the West and we might almost say the whole country has been turned on the Queen city of Puget Sound with the Queen city of Puget Sound with all expectancy and speculation as to the probable result of her effort to hold an exposition. This land of red apples and big timber, of gold mines and golden opportunities has been the Mecca of all westward pilgrime since this natal Expansition sound its street this noted Exposition opened its gates last June.

It does not come within our pro vince now, however, to write of the exposition further than to give a few capositoh further than to give a rew brief notes on the exhibit of live stock. This was the largest and best exhibit of live stock ever held in the West. Prof. W. L. Carlyle, who had charge of the exhibit in the capacity superintendent, stated that the ses numbered over 400, cattle horses numbered over 400, cattle about 700 and sheep, swine and goats over 1,000 Exhibitors were well pleased with the excellent management throughout. The officials secured judges of international repute and nen who were absolutely conscientious, therefore the work was well done and few complaints were heard for a show of this magnitude.

HORSES

Percherons made by far the largest showing of all the breeds. Geo. Lane, Alberta, was the largest exhibitor and won the bulk of the ribbons and Champion prizes. McLaughlin Bros. Columbus, Ohio., and A. C. Ruby, Portland Ore., also made large showings and got a share of

the spoils. Clydeadales — It was up to Canadians to make the showing in this
class. O'Neal & Co., Vancouver,
Shannon Bros., Cloverdale, B.C., and
T. L. Mercer, Markdale, Ont., were
the largest exhibitors. The Fraser
Valley Land Company, Ladner,
B.C., and W. G. Cordiner, Walla
Walla, Wash., each had a few entries.
In aged stallions Mercer's "Gral of
n aged stallions Mercer's "Gral of Walla, Wash., each had a few entries. In aged stallions Merces, "Gral of Brackley," won 1st and also reserve Champion, a horse of grand form and fine quality. "Brown Spots" owned by Shannon Bros, 2nd. In three-year-olds, O'Neal & Co., 1st in class, Senior Champion and Grand Champion, on "Marcellus Junior," a horse with size and quality combined. Champion, on "Marcenus Junior, a horse with size and quality combined. The Grand Champion ribbon went to O'Neal on "Flower of Flush," Shan-non Bros, reserve on Lily of Grand View, Mercer's "Royal Allam," won the Silver Cup for best American bred stallion.

Shires,—A. C. Ruby, Portland Ore., was the only exhibitor of this

Belgians .- These were out in go Belgians.—These were out in good numbers shown by A. C. Ruby, H. C. Campbell, Oregon and George Roels, Calgary, Atta. These horses were of high quality; many roans were noticed among them. J. M. Steves & Co., Steveston, B.C., were the only exhibitors of Suf-folk Punch horses.

folk Punch horses.

LIGHT HORSES

Thoroughbreds were shown by Thoroughbreds were shown by F. E. Alley, Rosenburg, Ore. Standard bred by Boyle and McDougatl, Tacoma; Thos. H. Brents, Walla Walla, Wash., Frank E. Alley and E. F. Klimmeyer, Los Angeles, Cal. In Morgana, J. W. Clies, Willermoor Morgans, J. W. Clisc, Willermoor Farm, Seattle made the best showing. His stallion "Troubadour" five years of age, is a perfect specimen of the breed and was much admired.

Roadsters and carriage horses were out in large numbers. Among them were many high-class individuals and good steppers.

good steppers.

Hackneys—Four B.C. men were the principal exhibitors, A. W. Howden Duncan, O'Neal & Co., Vancouver; Chas Moses, North Sanwich, and Jas Tomboline, Westham Island, B.C. Tomboline's stallion "Gastru Duka

of Connaught" a horse of fine quality and action won the Grand Sw stake prize and the Silver Cup. Some choice German Coachers were shown by A. C. Ruby, Portland, Ore., and high-class French Coachers by Mc-Laughlin Bros., of Columbus, Ohio. There was a big showing of Shetland

The Jacks, Jennets and mules hibited by Luke M. Emerson, Bow-ling Green, Mo., made a novel show-ing especially to the easterners.

ing especially to the easterners.
The judges on horses were: Clydesdales, Shires, Hackneys and Drafters
in harness, R. B. Ogilvie, Chicago
III. Belgians, Percherons and Mules
Col. J. S. Cooper, Chicago, III. Morgans, Saddle horses, Coachers, Roadster, Stanlard head Ill. Belgians, Percherons and Mules Col. J. S. Cooper, Chicago, Ill. Mor-gans, Saddle horses, Coachers, Road-sters, Standard bred and Ponies, Prof. John A. Craig, Stillwater, Ok-lahoma. Throughtred and American Carriage horses, G. M. Rommel, U.S. Department of Agriculture, Wash-ington, D.C.

CAPTER

In the beef breeds Shorthorns made In the beef breeds Shorthorns made the largest showing. Carpenter & Ross, Ohio, Mrs. J. H. Gildi, Cal., W. A. Minor, Oregon and A. D. Dunn of Wash, drew for the honors. They showed no weeds and few stars but among them, were a lot of high class animals. Carpenter . Ross had the best of the winning, they having the Grand Champion male in "Shuston Albino," two years old; a bull of great merit. Their two-year-old cow "Lancaster Bud," won the Grand Champion. Grand Champion prize among malas

Herefords—The Williamette Valley Stock & Land Company had it their own way with the White facers. Two astern exhibitors had entered failed to come. but

Aberdeen Angus — The "Doddies" were shown by A. C. Binnie and Otto V. Battles, both of Iowa. They had a smooth fleshed, uniform lot. To Battle's "Oakville Quiet Lad" went the Grand Champion ribbon, while the female Grand Champion ribbon

the female Grand Champion ribbon went to Binnie's smooth three-year-old cow "Queen Lass of Alta."
"Galloways — The shaggy coats— "Triple Purpose" blacks were shown by C. E. Clark, Minnesota and J. C. Schin of Oregon. The Junior Cham-pion bull also Grand Champion, "Speculation of Meadow Lawn," own-ced by Clark is a good one, having ed by Clark is a good one, having by Clark is a good one, od scale and quality. Clark quality. Clark was

the largest exhibitor.

Red polled—These dual purpose ani Ked polled—These qual purpose aimals were shown by Frank Davis & Son and Chas. Groff of Nebraska, F. J. Clouss, Iowa; F. H. Porter, Oregon, L. K. Cogswell, Wash, and J. T. Maynard, B.C. The classes were large, the quality on the whole high

Brown Swiss—These natives of the hill, valley and glacier were shown by N. M. Snodgrass, of Wash., and B. P. Inman, Oregon. While they were a good, fair lot, yet there were

o stars among them.

Devons—This almost extinct breed Devous—This almost extinct breed was shown by an easterner and a westerner—Mr. Neal, New Hampshire and Gorrier P. Simeral, Oregon, who divided the honors. The indges in these classes (Nicotal Parkette, Ny, Angus—M. A. Judy, Talla, Ill; Galloways and Devons—Prof. R. J. Kinger, Manhattan, Kan.; Red Polled—J. W. Martin, Gotham, Wis.; Down Swiger, C. Esathona, Wagren. J. Kinger, Manhattan, Kan.; Red Polled—J. W. Martin, Gotham, Wis.; Brown Swiss—C. Easthope, Warren.

The dairy breeds were reported in Farm and Dairy last week.

The Lig exhibit of sheep was a surprise even to the exposition managers. They came from not only the

agers. They came from not only the coast but middle States. Rambouillets made the larges showing. Their black, greasy woo and big twisting horns were a curios ity to many of the onlookers. Many black, greasy wool Many

mals. The Merinos were of high quality. Shropshires were also numerous and were a choice lot as were the Southdowns and Hampshires. In Oxford downs were a lot of heavy sheep of good quality. Dorset horns were

few in numbers and were a fair lot.
In long wools. Cotswolds predominated. They were closely followed by Lincolns. Both were high class exhibits, particularly the former. Only one exhibit of Leicesters was out. It comprised some good ones. The sheep judges were Merinos & Rambouillets— D. King, Burlington, Kan; Shrop-re Downs, Cotswolds and Lincolns Sire Downs, Cotswolds and Lincolns-shire Downs, Cotswolds and Lincolns-L. E. Shaw, U.S. Dept. of Agri-culture, Wash. D. C. Crosses-J. H. Grisdale, Ottawa, Ont. Goats, N. A. Girvin, Lawrence, Kansas. SWINE

The swine exhibit completely filled the pens. To the ideal bacon hog man they could be considered off type as they were most'y of the thick, fat

Poland Chinas were in the majority. They were a typical lot with few inferior beasts among them. Chester Whites were a close second in point of numbers though they were not so uniform in quality yet there were many fine specimens. Essex, Berkshire, Hampshires, Duroc, Jersey, all had some fine specimens. The Tamworths alone claimed the honor of representing the true bacon type and they did it well as they were fine individ-uals and would have stood high ir any company. The judges on swine were, Berkshires—7. W. Martin were, Berkshires—I. W. Martin Gotham, Wis. Peland China and Es-sex—John L. Smith, Spokane, Wash.: Chester White and Duroe Jersey— Prof. R. J. Kinner, Manhattan, Kan: Tamworth, Hampshire, Grades and Crosses—J. H. Grisdale, Ottawa, Out. W. F. S.

Farm Weeds of Canada

Farmers and others who have long felt the want of a suitable text on weeds may now have that want sa-tisfied in the second edition of "Farm Weeds of Canada," a copy of which book has recently come to hand. The first edition of "Farm Weeds" was first edition of "Farm Weeds" was distributed free to public institu-tions, including rural schools. The second or revised edition has been prepared and published to meet the urgent requests of individuals who desire the book for their personal

The information presented in this work is most useful because the il-lustrations of weeds and weed seeds make it intelligible to farmers and make it intelligible to tarmers and others who are not expert in the nomenclature of plants. The edition contains 76 plates of weeds and weed seeds, illustrated in their natural col-6r, and 180 pages of text. The expense entailed in the preparation printing and binding of 76 colored priming and binding of 70 concret plates as contained in this volume precludes it from the list of those publications of the Department of Agriculture that are distributed gen-erally and free of charge. The book is available to the farmers of Canada (visible control of the farmers) of Canada (single copies only) at the office of the Superintendent of Stationery, Government Printing Bureau, Ot-Government Printing Bureau, Ottawa, for the nominal price of \$1.00 which will meet a part of the unusual expense incurred in its issue

The book is well bound. Its contents The book is well bound. Its contents are such as to make it a most valuable addition to the library of any farmer. In view of the great need of special information pertaining to weeds that is required in order to successfully cope with them, all farmers should avail themselves of the op-should avail themselves of the opportunity to secure this work.

Have you forgotten to renew your subscription to Farm and Dairy?

CALVES Raise them without Milk. Booklet Free. classes contained a dozen or 14 ani-

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R********** FARM MANAGEMENT

X++++++++++++++++++++++++++ The Application of Manure

D. Drummond, Department of Agri-culture, Ottawa.

Manure should be applied to a field as soon as possible after the removal of the previous crop. For example, if the field intended for pasture next year is in hay this year, apply, as soon as possible after the crop has been removed, all the manure that has accumulated since winter and continue with all fresh manure as made during with all fresh manure as made during the winter months if the land is suitable to spread it. It the land is too rolling or too level and liable to be washed by water in the spring, the better way would be to put it in small heaps in winter freeze immediately and remain from and remain frozen.

EFFECTS ON THE PASTURE.

It is a well known fact that the pas tures in this country generally fail as soon as dry weather comes. In cultivated fields, we can prevent to a certain extent the damage from dry certain extent the damage from dry weather by frequent cuttivation and by what is known as a dust mulch. The manure acts as a mulch in the pasture and so lengthens the season of good pasturage.

Some objections may be made that the cattle will not ear the grass so close. Is that an objection or a benefit? Authorities tell us that the leaves are like unto the lungs of the leaves are like unto the lungs of the plant, so how can grass be expected to grow without lungs or with very contracted one as are too frequent in pastures in this country. Therefore, we cannot see that this would be associated without the contract of th a serious objection. Though the cattle do not eat the grass for a short time after the application of manure spread on the grass during June and July, as soon as the rain comes, they eat it quite freely and it is almost like a new field to them.

All authorities agree that the sooner manure can be applied after dropping the less loss there will be. By applying it less loss there will be applying it to sod, there is a to one of the color all and prevent any isaching use of it and prevent any isaching there may be some lost by evaporation in summer, but even that is doubtful. The growth of grass would soon prevent that and the tramping of the cattle seems to cause the ma-SAVING MANURE of the cattle seems to cause the ma of the cattle seems to cause the ma-nure to lie close to the surface of the soil and so aid the soil to make us of the fertilizing properties of the manure

DESTRUCTION OF WEEDS.

It used to be a general opinion that the rotting of manure destroyed all weed seeds. That theory is not now weed seeds. That theory is not now generally accepted. Of course, some will be destroyed by rotting but a great many will still retain there as reat many will still retain there as land intended to be pastured, the weed seeds germinate almost immedi-ately and if not kept down by stock can be cut by mower. Some of the annuals that germinate the first seaannuals that germinate the first season are killed by frost. Biennials and perennials having had only one year are not far enough advanced to proare not far enough advanced to produce seed and as the land is plowed for corn or other crop, either in the fall or spring, aided by the cultivation of the corn crop, will destroy them before they come to maturity.

Anyone who is in the habit of applying manus either in the product of applying manus either in the control of the corn of the

Anyone who is in the habit of applying manure either in winter or spring to the land, knows well that that land is kept wet, the frost is retained longer and the manure on the surface retards early cultivation which is of great benefit to break up the crust and carryents. the crust and cause the germination of weed seeds that can then be deexcellent practice if land is suitable), the tramping of the teams in applying the manure has a tendency to com-pact the soil and to make the plow-

pact the soil and to make the paor-ing more difficult.

By this other system the manure has been on the sod a year previous and has assisted the grass to make a great root growth, so adding more mus to the soil and whether plowed in spring or fall, gives the very best bed spring or rain, gives the very best bed for a good corn crop, which being a voracious feeder, will use up an ex-cess of fertility and benefit by it, and so leave the soil in a better con-dition for the following grain crop.

New Westminster Exhibition

Here annually gather the cream of the live stock of British Columbia to the live stock of Brillan Columbia to contest for the honors usually found at the annual exhibition. This year again found the stables well filled with a lot of high-class tock in which most of the breeds of horses, cattle, honor wine and roultry were repsheep, swine and poultry were represented. Those who have been acquainted with B.C. shows for the past quainted with B.C. shows for the past five years will notice a vast improve-ment in the quality of live stock ex-hibited now as compared with former years. We believe this is largely due to the expert judge system as adopted by these Western exhibitions.

horses on the whole were a ass lot. In drafters, Clydeshigh-class lot. dales predominated. They were shown by Shannon Bros., Cloverdale; O'Neal

by Shannon Bros., Cloverdale; O'Neal & Company., Nacouver; Pemberton & Company. Or Pender Island, B.C.; Thos. Mercer, Markdale, Ont., and J. M. McD.nald, Sea Island, B.C. Standard breds; 12 head of high class animals ever shown by J. T. & Wilkinson, Chilliwack.

The were a lot of fine Hackneys which made a grand showing but were lot under the made with the made when your correspondent big did by the company of the children when your correspondent big did by the company of the children when your correspondent big did by the company of the children when you can be supported by the company of the children when you can be supported by the control of the children when you can be supported by the ch exhibitors were asked for at the of-fice Lut were refused until after the awards were made. Horses were judged by Professor Rutherford, Regina, Sask.

CATTLE

Reef breeds were represented by one herd of shorthorns of good type owned by Jos. Tamboline, Westham Island, also by one herd of Herefords. Owned by W. R. Austin, Westminster Jet. These latter were very thin in These latter were very thin Hesse latter were very thin in flesh. Red polled cattle were shown by L. K. Cogswell, Chehalis, Wash.; and J. T. Maynerd, Chilliwack. DAIRY BREEDS

Ayrshires made the largest showing. The herds of R. R. Ness and P. Hunter & Sons were on hand on the trip from Seattle and between them they took the cream of the prizes. A. C. Wells & Son, Sardis, Shannon Bros., Cloverdale and W. R. Austin were the other exhibitors.

Austin were the other exhibitors.

In aged bulls, Ness won 1st on
Bargenoch Gay Cavalier, Hunter 2nd
on Lessnessock Oyamas Guarantee.
3rd A. Wells on Lessnessock King of Beauty, lately purchased from the States; the latter bull was not in as good form as at Seattle had to step down one place. therefore

good form as at Seatile indectore bad to step down one place.

Two-year-olds — Jist Ness, 2nd Wells. Ness won 1st on Senior Yearling, Hunter 1st on Junior Yearling, Hunter 1st on Junior Yearling, This brought these two bulls in with the aged bull for Champion honors, which were finally decided in favor of Hunter's Bargenoch Victor Hugo of Hunter's Bargenoch Victor Hugo of Hunter's Bargenoch Victor Hugo victor and any in the senior of Hunter's Auchenbrain und placed last. Auchenbrain placing with the senior of the s

Big Nancy.
Two-year-olds— 1st Hunter, Queen of weed seeds that can then be de-stroyed by a later cultivation. Even in the case of land not plowed until flumediately before corn planting (as | for yearling, 1st, Hunter ;2nd, Ness; to Farm and pairy.

3rd, Wells; Junior yearling, 1st and 3rd, Ness; 2nd, Hunter; Senior calf, 1st, Ness; 2nd, Hunter; 3rd, Shannon; Junior calf, 1st and 2nd, Ness; 3rd Wells, Junior Herd, 1st Hunter; 2nd, Ness; 3rd, Wells. Produce of Cow, 1st, Ness; 2nd, Hunter; 3rd, Walls.

Holsteins made a good showing and Hoiseens made a good showing and were of good quality. Wm. Bishop, Chemacum, Wash., and J. Steves & Co., Steveston, B.C., were the exhi-bitors. Aged bulls, 1st and Champion went to Bishop on Karl Bos (Imp.) a hull of fine type and chapacity B. went to Bishop on Karl Bos (Imp.) a bull of fine type and character. 2nd to Steves. Two-year-old, 1st Bishop; 2nd, Steves. Two-year-old, 1st Sishop; 2nd Steves. Call, 1st, Steves; 2nd, Bishop; 2nd Steves. Call, 1st, Steves; 2nd, Bishop; 2nd character of the control of the con op. Senior yearling, 1st Steves; 2nd Bishop. Junior yearling, 1st Bishop. Senior calf, 1st and 3rd Steves; Bishop, 2nd. Aged herd, 1st Steves; 2nd, Bishop. Junior herd, 1st Steves, 2nd, Bishop. Get of size, 1st and 2nd

Bishop, Junior herd, 1st Steves, 2nd.
Bishop, Get of sire, 1st and 2nd,
Steves; 2nd. Bishop, Produce of cov.
1 Steves; 2nd Bishop.
Jersys were shown by A. H. Mensies & Son, Pender Island and were
of good quality. His aged bull is of
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provided by the state of the state of

W. W. Ballantyne, Stratford, Ont... acted as judge of dairy cattle. There was a nice exhibit of sheep

There was a nice exhibit of sheep made up of the lower sheep considered the construction of the constructi he was rerused the names of the ex-hibitors. I may say that is the first time he has been refused the names of exhibitors before the awards were placed in all his experience of show

reporting.

Of the exhibits in the buildings, we cannot refrain from referring to the exhibit of fruit which was simply magnificent, also the County ex hibits of fruit, vegetables, grains, etc. Each County viel with each other as to the attractiveness of their other as to the attractiveness or their exhibit. To my mind the exhibit of Richmond Co. was unrivalled. The exhibit of butter consisted of

The exhibit of butter consisted of 24 crocks of dairy, 18 lots of prints, 3 lots of creamery in boxes and prints and 2 lots for the display prize, one lot each of factory and dairy cheese. Miss Laura Rose, Guelph, Ont., promounced the quality of dairy products first-class.—W.F.S.

Worth Working For.—I received the fountain pen and the poultry book both of which were sent me by Farm and Dairy for securing two new suband Dairy for securing two new sub-scriptions for that paper, and I am much pleased with them. The prem-iums that Farm and Dairy offer for new subscriptions are well worth working for. The pair of fowl that I received last year from Farm and received last year from Farm and Dairy, as a premium, won 1st prize at our county fair this fall.—W. R. Beach, Missisquoi Co., Que.

Young pigs can readily be stunted by over feeding. A steady corn diet will readily accomplish the short

"I am much pleased will Dairy, as it supplies week added of good substantial reading G. R. Bradley, Carleton Co., Ont.



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CIRCULATION MANAGER FARM & DAIRY Peterboro, Ont.

************* HORTICULTURE

An Opinion on Cultivation

Edward Lane, Waterloo Co., Ont.

I have read a great deal of concoversy about cultivating an orchard and the writers vary so much that they go from one extreme to the oth-As a farmer would not think of putting a thoroughbred animal, which he intends to feed for show purposes, into a stall and also put in a pig or a sheep to feed out of the same manger, so he should not think of putting a tree into a certain piece of ground and then want to grow some

other things on it at the same time. Give the tree as much land as its roots require and that will be as much as its branches cover and a little more. The rest can be plowed six inches deep or six feet, which ever suits his purpose the best, but nothing but a hoe should be used around the tree and that not more than two inches deep and it should be used as often as any usurper appears or crust forms on the surface. It mat-ters not what is done to the ground between the trees but it matters good deal what crops are put into the ground, as nothing but dwarf grow-ing crops should be grown and those that can be hoed

Fruit Growers' Programme

An interesting programme has been arranged for the convection of the Ontario Fruit Growers' Association to be held in Toronto, Nov. 10 and 11. Some of the subjects that will be dealt with are as follows:

"Small Fruit Culture in Ontario During the Past 50 Years," A. W. Peart, Freeman.

Peart, Freeman.
"Overplanting of Strawberries and
the Western Markets," Robert
Thompson, St. Catharines.
"Small Fruits in the Young Apple
Orchard," J. E. Johnson, Simooe.
"STREERIES AND GRAPES

"Sweet Cherries for Southwestern Ontario," F. J. Stewart, Homer. "Cherries for the Commercial Or chards of Ontario," A. E. Sherring-

ton, Walkerton.

"Is Grape Profitable at Present
Prices," Murray Pettit, Winona.
"New York Grape Growing Methods," D. K. Falvay, Westfield, N.Y.

"Commercial Peach Orcharding in Southwestern Ontario," J. L. Hilborn, Leamington.

"50 Years of Peach Culture in On-tario," A. M. Smith, Port Dalhousie. "Pruning of the Peach," J. W Smith, Winona and Wm. Armstrong, Queenston.

Queenston.
"Peach Crops and Prices," W. H.
Bunting, St. Catharines.
"Peach Culture in Michigan," C.
Bassett, Fennville, Michigan.

PEARS AND PLUMS

"Results of 50 Years Experience in
Growing Pears," E. C. Beman, New-

castle. "Profits in Pear Orchards," W. F. W. Fisher, Burlington. APPLES

"Lime Sulphur vs. Bordeaux for Summer Spraying of Apples," L. Cac-sar, O.A.C., Guelph. "The Apple Orchards of the Lake Huron Shore," S. E. Todd, O.A.C.,

Guelph.

"Spraying 10 acres of Apples—Cost and Equipment," Max Smith, Bur-

Ington.

"Marketing of Apples," R. J. Graham, Belleville.

"Low Cost Cold Storage Plants for Co-operative Associations," J. A.

Co-operative Associations," J. A. Ruddick, Ottawa.
"Export Apple Trade," by Dealers (English). 'Getting Together," C. Bassett,

Michigan.

"Apple Growing on the Pacific Slope," (illustrated by lantern slides) Prof. John Craig, Ithaca, N.Y.

The Value of Co-operation

"I purpose to give only one exam-ple to show what has actually happen-ed and to prove what can be done by having a large number of fruit-growers united and acting co-pera-tively, in not only preventing being imposed upon by large combines or a number of manufactures; uniting the number of manufacturers uniting raise the price of the supplies used by ering the cost to themselves and also to the general public," said Mr. Robt. Thompson, of St. Catharines, before the American Pomological Society last

the American Pomological Society last September.

"In the fall of 1906, owing to a large fruit crop, there was a short-age in the basket supply. A number had to be imported from the United States. These baskets not being the same size as our own, we had trouble in loading cars properly, and the manufacturers would not comply with the law in regard to standard sizes that went into effect January 1st,

"The basket manufacturers held

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Ontario Horticultural Exhibition TORONTO

November 9-10-11-12-13, 1909

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Agent for particulars.
P. W. HODGETTS, Secretary,
Parliament Bldgs., Toronto

closed previously, no action was ne-

closed previously, no action was ne-cesary for that season. During the fruit season of 1908 the association was approached by several and solicited for their contract for and solicited for their contract for the copy of the association was that the copy of the season of the world supply them with a season of a price not to exceed one dollar of a price not to exceed one dollar of an advance ner thousand over the cost "The basket manufacturers held a meeting early in December, 1906, and dagreed to fix standard prices, and raised the standard six-quart grape basket to \$38 per thousand, and eleven-quart baskets to \$42 per manufacturers in Ontario to supply thousand. The growers accepted this

mostly composed of French Cherry trees of old Damson and Rein-Claude of Montmorency plum trees Reine claude of montmorency plum trees, with a few wild apple tree seedlings, have seen their place taken by young orchards, some full of promise and some already in full bearing. But, notwithstanding all this progress, we meet with a practice coming from two faults, want of knowledge and negligence on the part of our

ers.

This practice is that of leaving the old orchard uncultivated or even of destroying it as soon as it is decided that a new orchard is to be planted, or in fact has been planted. I wish to protest against that practice and to show that we can easily lenothen to protest against that practice and to show that we can essily lengthen the life of the old orchard trees for many years, while the new one recently planted grows and gets ready to give an abundance of truit. I will tell what I did to preserve an old occhard many years ago, my work having Leen repaid by excellent results.

After having pulled away all dead trees from the orchard and having pruned all decayed wood and unsound limbs, broken or otherwise defective of the trees I wished to preserve, made of these a through inspect made of these a thorough inspection order to take away all the parainfesting them. These were of three sorts; black knot, cankers and gum. I cut away from the branches all the knots protruding over the trunks, took away all cankers to the live took wood all traces of exuding gum from plum and cherrry trees.

(To be continued next week.)

Farm and Dairy is a splendid paper for the money and we have no fault to find with it. We cannot recommend it too highly.—H. G. Wisson, Elgin Co., Ont.



Fourteen Pumpkins that Weighed Six Hundred and Eighty Pounds The product of one hill or three vines. Grown by Mr. E. A. Sanderson,

raise grudgingly and without much open protest. In December, 1907, the basket manufacturers again met and agreed to a further raise in prices, fixing prices at \$40 for six-quart baskets, and \$42 for eleven-quart baskets

The St . Catharines which is probably the largest and strongest body of fruit-growers in Canada, at once began to make arrangements and enquiries to have their supply of grape baskets manufactured in the United States and factured in the United States and shipped in, paying a duty of 30 per cent. They found that a very large corder would have to be placed to warrant the American manufacturer to change his forms and make up the Caradian size. Owing to the large number of growers in the association this was done and a contract closed for several hundred thousand grape baskets of Canadian size, at a very much lower price. The Ontario manufacturers, on learning of this, held ufacturers, on learning of this, held another meeting and at once lowered the price of six-quart baskets to \$38 per thousand, and raised the prices of eleven-quart baskets to \$45. As the contract for eleven-quart baskets for the use of this association had been

baskets for the season of 1909. The price fixed for baskets to the public by the manufacturers for the season of 1909 was \$36 per thousand.

"This is only one example out of dozens that could be given to prove dozens that could be given to prove that where a large number of grow-ers are loyal to their association they can, not only prevent pric-es being unduly advanced to themes being unduly advanced to them-selves, but the general public also de-rive almost the same benefit, as they also usually share in the reduced prices. On the one contract made in 1908 with the American firm the as-sociation saved directly \$2,000, and indirectly the saving to the public and themselves would amount to many themselves would am thousands of dollars." amount to many

Renewal of Old Orchards* J. C. Chapais, St. Denis, Que.

Fruit-growing has taken a great ex-tension in our province. New orchards are planted in sections where 25 years ago, it was thought that fruit trees ago, it was thought that and specially grafted apple tree growing was impossible. Old orchards

*Extracts from a paper read at a meeting of the Quebec Pomological Society at La Trappe, Que.



Mr. Hackett and his son were discussing

their new barn.
"Well, Dad, how about the roof?"
"We'll shingle it."

"Poor economy, Dad, shingles rot and re sure to leak."

"What's better than shingles?"
"Rex Flimtkote Roofing. It's water-proof;
won't catch fire from sparks; is easy to lay,
and it lasts. I've seen it tested."
"Is it cheap?"

"Is it cheap?"
"No, it's economical."
"No, it's economical."
"All right, Bob, Rex Flintkote it is.
Where can I get it?"
"Write to the makers,
J. A. & W. Bird & Co., 19
India Street, Boston, for
their interesting booklet
and anything vou want to and anything you want to know about it.

Canadian Office: 23 Con non Street, Montreal

Whi er the receive solutely be thro ed who

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RESE

"We d he wor the con but it of the "We have our still so market The v ful ma careless man wh eggs to criminat

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try, and s hens to sup hold during quite a fe the past the city, gives his small p with newlai margin on Our corres

Re the pe from you e e turned out. their egg re I received th Also the cost as I can, be their rations chen and ta Leaving th

grain,

Who Pays for Them?

While talking to a wholesale dealer the other day he made the remark that in a 30-dozen case of eggs received at this time of the received at this time of the year there would be an average of over two dozen eggs that were abover two dozen eggs that were absolutely worthless and had to be thrown on the dump heap. I asked who paid for them, and he said, "We don't. If the buyer does not, who does? The middle ma: can't or he would not stay in the business; the consumer may pay a lite of it, but it is quite probable that the bulk of the price has to be noid by the at it is quite probable that the built of the price has to be paid by the roducer, for the same man said, 'We have to count this loss when we have from the farmer.' And buy our eggs from the farmer 'And still some farmers will continue to still some farmers will conti ue to market stale eggs. The worst feature is that the care-

man very often loses with the eless one. The remedy is for the run han very creen roses with the careless one. The remedy is for the man who is honest to cease to sell eggs to the buyer who does not discriminate in price.—F.C.E.

\$4,500 for Poultry

The exhibit of poultry in connection with the last Winter Fair was one of the largest ever seen on the American continent at an annual show. There were over 4,200 entries The poultry committee of the Fair are striving to reach the 5,000 mark

t the coming Fair.
Conditions are favorable for a large Conditions are favorable for a large increase in the entries for this department. The new addition which has been made to the Fair building in Guelph gives 10,000 square feet of additional floor space in the poultry department and brings the total up to 25,000 square feet of space. The holy price willing for the state of the property of the property of the state of t to 20,000 square reet of space. The high prices ruling for both dressed poultry and eggs has caused a keen demand for pure bred poultry and breeders will therefore desire to se-

breeders will therefore desire to se-cure thinking at such a large Fair. The object of manacial inducements, of course of the second provided by regu-lary from the provided by regular prize of \$5,000 in cash and a list of special prizes worth over \$1.500. The classified of special prizes of \$500 in cash, so the prize of \$500 in cash, and the special prize of \$3,000 in cash, and the special prize of \$3 specialty clubs. Poultry entries close on November 22nd and should be sent to the secretary of the Fair Lefore that date.—A.P.W.

A Short Summer Record

There are a number of city families who spend their summer in the counwho spend their summer in the country, and sometimes buy a flock of hens to supply the eggs for the household during this time. We have sold quite a few of such flocks during the past three years. One man, who, by the way, kept his flock in the city, gives an interesting record of his small pen for two months, showing that besides providing the family with newlaid eggs, there is a little margin on the transaction. Our correspondent, Mr. G. Ed-wards, of Gordon avenue, Verdun,

Re the pen of Barred Rocks I got ite the pen of Barred Rocks I got from you early in June, I thought you might like to hear how they turned out. I give you herewith their egg record from June 9, when I received them up to August I, 1909. Also the cost of maintenance as pear Also the cost of maintenance as near as I can, because a large amount of their rations at this season are kit-

chen and table scraps.

Leaving this out of the question, the grain, oats, wheat, with some

POULTRY YARD shorts to thicken up a mash of table scraps, now and then, amounts to \$1.45. Fresh meat once a week

scraps, now and then, amounts to \$1.45. Fresh meat once a week added to this is 40 cents more, and if oyster shell and grit are likewise considered, five cents more, bringing the total up to \$1.90. Now what do I get for this? The pen, as yow know, consisted of a cock and seven hens. The 21 days of June gave me 102 eggs, namely, 18, 17, 17, 13, 13, 11, 13, by individ-ual score, as I use trap nets. On June 29 one hen having become broody I gave her a small cutted of eggs and 29 one nen naving agare her a small clutch of eggs and gave her a small clutch of eggs and she has now five chicks running around, but has not started to lay yet, so for July's 31 days, we have 109 eggs fom six hens, 21, 22, 24, 13, 13, 22

You will note that for the total we have 211 eggs. Seventeen and a half have 211 eggs. seventeen and a half dozen at summer's low price of 25 cents per dozen, \$4.40; cost of main-taining, \$1.90; profit, \$2.50, besides an increase of five chicks.—F.C.E.

Dressing Poultry.—All fowl should be starved at least 24 hours before being killed. Kill by bleeding at the mouth or throat. Dry pick while warm. Leave heads on chickens and trikews, and take them off ducks and warm. Leave heads on enlectens and trikeys, and take them off ducks and geese. Hang up till quite cold before packing. If possible wrap each bird in paper, this will keep them from getting bruised or sweating if to wasther is warm, or freeging if to weather is warm, or freezing if too

How to Build a Telephone Line

(Continued from October 14)

All trees on the route should now be trimmed. All limbs should be cut back as that they will not be within three feet of any wire. It is very important that the trimming shall be conscientiously, for there is more done conscientiously, for there is more done conscientiously, for there is more done to the conscientiously, the constitution of the conscientiously of the constitution of the conscientiously of the conscientiously and the conscientiously of the constitution of the conscientiously of trouble on rural lines from that source than from any other. As these limbs will soon grow out again, they should be watched and never allowed to touch wire at any time, as it makes the work easier.

work easier.

The work is now ready for the
line wires. For this work you will
need, for the best results, climbers, need, for the best results, climbers, pliers, splicing clamps, pully blocks, clamps, and wire reed. In starting, the reel should be placed in a con-venient position behind the first pole. A coil of wire is placed on the reel and unbound, being caroful to loosen only the outside and some only the outside end and to keep it clear. Now tie a 50 foot hand line to the end of the wire and you are ready to proceed. A braided cotton line, a half inch in diameter, makes the best kind of a hand line, though line, a half inch in diameter, makes the best kind of a hand line, though any half-inch rope will do. The lineman starts out with the hand line, climbs the first pole, and runs the line over the top arms next to one of the pole pins. Each pole in succession is climbed and the wire run over the same place, till the coil is over the same place, till the coil as wires to be strung, the first wire is tied to the arm of the first and last took and the coil is run through no amanuser similar to the first stringing. As many wires as necessary are ling. As many wires as necessary are in a manner similar to the first string-ing. As many wires as necessary are strung without changing the location of the reel. It is a good idea to have the reel so placed that you can string both ahead and backwards from the reel, as it saves considerable carrying. Wires for the pins next to the pole on the top arm and the save as the top on the top arm and the save as the top on the top arm and the save as the save as the top of the save as t reel, as it saves considerable carrying.

IF YOU WANT A BIG SALARY YOU OWE IT TO YOURSELF TO WRITE US A LETTER OR A POSTAL. CANADA POST CARD The Commion Railway School Don't you often wish you had a good Don't you often wish you had a good position and a big salary? You see other men who have. Do you think they get them by wishing? Don't you feel if you had the chance you could do their work? Of course you could. Just say, "I'll' do it," and you will. Get your pen. Write us a letter or postal. We will show you how. Winnipeg Canada We teach and qualify you by the teach and qualify you by the teach of the teach without loss of time from your present work. Positions are secured; in fact, there are many openings right now if you were qualified to fill them. Our Course is the most complete treatise on the subject of Railroading in existence. We defy any school to show a course anywhere nearly as YOU CAN EARN BIG MONEY. WE WILL START ence. We day any sensor wants as a course anywhere nearly as thorough. Don't tamper with your education by buying cheap bargain courses. Ours is the only School of its kind in Canada with text. YOU FOR IT. books written for use on Canadian Railways. FIREMEN Our free booklet tells all about our system of teaching. When writing, state age, AND BRAKEMEN I Earn from \$75 to \$150 per month. weight and height. With the rapid progress of railway building in Canada it takes only two

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FARM AND DAIRY, Peterboro, Ont.

second is finished before splicing the wire together. A pair of blocks with half-inch rope is used for pulling up half-inch rope is used for pulling up the wire. A wire clamp is attached to each block, so that the pul made from both directions at the same time. When tight enough the ends are brought together side by side and clamped with the splicing clamp. Cut off the wire on each side of the and clamped with the splicing clamp. Cut off the wire on each side of the splicing clamp, leaving a fix for or six inches With your plus wrap the one end tightly around the most to the splicing clamp. Now-move the splicing clamp to the part that is wrapped and take two or three turns with the other end around the line wire. These should not be close turns, but should extend along the turns, but should extend along the wire about an inch and a wire about an inch and a mich and as wire about an inch or an inch and a half. Then finish with four or five turns wrapped closely together. Now, with the splicing clamps holding one with the splicing clamps holding one end of the splice tightly, and with the pliers holding the end of the wire at the other end of the splices, twist the neck of the splic tightly, but not the neck of the splice tightly, but not enough to break the wire. Cut off the neck of the spince tignily, but not chough to break the wire. Cut off the ends. Each splice should be sold-cred at the neck very carefully.

While the stringing has proceeded the insulators should have been put the proper plus ready to receive

next pole to keep it from being pullon the proper pins ready to receive
the wire. The insulators are usually
the advantage in having a hand line
the wire over or
through obstructions. A weight is fastended on the differ all wires are pliced,
the differ all wires are pliced,
the first block is done, the of line wire 10 or 12 inches long is
entire a word, payable in advance.

Here, C. R. I. REDS. Partridge Wyandottes
the wire already
the time and thrown over the obstruction, and the
line wire can be easily pulled through.

After the first block is done, the of line wire 10 or 12 inches long is
erford. Caledon East, Out.

satisfactory for a tie. Each tie should be bent around the insulator and the be bent around the insulator and the ends should be wrapped around the line wire. When the wire is to be dead ended, there should be two turns taken around the line wire at a point about two inches from the insulator. In tripu the wires on the insula-

or three years to be ad-vanced to engineer or conductor, whose salaries

are from \$90 to \$185 per

about two inches from the insula-In tying the wires on the insula-tors, the two wires next to the pole should be fastened to the sides of the should be fastened to the sides of the insulators away from the pole and the other wires should be on the pole sides of the insulators. The reason for having the pole wires as far apart as possible is to afford room for a (Continued on page 19)

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FARM AND DAIRY

AND RURAL HOME

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FARM AND DAIRY PETERBORO, ONT.

ANOTHER FAKE

Almost every year some new fake in the horticultural line makes its appearance in Canada. The variety and ingenuity of these frauds is astonishing. Even more astonishing, however, is the number of farmers and fruit growers who are bitten by them.

We have had powders which by being injected into a tree, would be earried by the sap through all the branches and result in phenomenal yields. Paints that would protect trees against all insect life and insure large crops, have had their day. "Seedless" apple trees that were going to revolutionize the fruit growing industry have appeared and disappeared. Now we hear of Northern Spy apple trees rown by a new budding process, that will insure young trees coming into bearing inside of three years' time. Agents who are booming this new discovery (?) we learn are operating in such counties as Simcoe, Grey and Dufferin, in Ontario and possibly elsewhere.

The agents who represent these con-

cerns are smooth talkers. They know that their frauds will not be discovered before several years, which enables them to get a portion at least of the money they are after and get safely out of the country before their victims discover that they have been defrauded. Our farmers and fruit growers should be on the lookout for these gentlemen and demand that they show reports from the experiment stations and government institutions proving absolutely the merits of the goods they offer. When the agents are unable to do this then they should be given a hot time, and the country should be warned of their presence.

WEED LAW UNSATISFACTORY

The Ontario Act to prevent the spread of noxious weeds needs to be radically amended. In fact, the present law could well be discarded and replaced by a new one.

Its chief defect lies in the fact that its enforcement is left in the hands of the local municipalities. Under such conditions no attempt to enforce the law is likely to be made until conditions in each municipality have become so bad that the majority of the people of the township are suffering serious loss from the weed pest thus creating a condition of affairs where drastic action becomes cessary.

Like all other laws of the same nature, which are left in local hands for enforcement, the weed law is practically a dead letter. At one time, the prosecution of parties who broke the sanitary laws relating to the han ling of milk and cream was left with the municipal officers. This proved a failure and finally provincial inspectors were appointed by the Provincial Department. Recently, we find that the work of the enforcement of the criminal laws is being so amended that the county constables hereafter will be managed by the Provincial Government. Other instances of the same nature could be cited.

We need a law in Ontario which will compel the cutting of noxious weeds before they go to seed and the enforcement of which will be left with Provincial inspectors. This matter should be agitated at farmers' institute meetings and by farmers'

BETTER ROADS ARE NEEDED

A person who travels through the various provinces, counties and townships of Canada cannot fail to note the great difference in the public roads. The contrast is often great where the division is only a township, and sometimes it is most marked between a rural municipality and a town and that not to the advantage of the town. Why such difference? The same soil and material from which to build a road are available. We must look for other causes. The method of construction is one of them.

If we travel through a township which has 100 to 150 pathmasters we will see many different ideas set forth in road building; such as differences in width of road, grade, ditching, the

placing of culverts and building of bridges. One of the first requisites of road building is uniformity. This can be best accomplished by having some competent person to lay out and superintend their construction. The leading roads should be wider than those that are less travelled. The ditches should not be too deep, but sufficient to carry off all water during the spring or a heavy rain. Where the ground is springy the road bed should be tiled. The road bed must be properly rounded with the road grader so as to carry the water from the centre to the ditches and make a good foundation for broken stone or gravel. The covering of stone or gravel should be thick so that it will form a solid body and should be wide enough to catch the wheels on each side.

The road grader has become common and is an excellent machine when properly used for grading and rounding up the road bed by cutting off the shoulders that form on the sides of the road and throwing them out. In many municipalities the grader appears to be used for destroying roads with a solid foundation of gravel by scraping the soft soil from the sides to the centre of the road. A road so treated will be a mass of mud in wet weather. By its improper use the grader becomes a menace to roads instead of an advantage. New made gravel roads are avoided as much as possible by travellers in dry weather on account of the loose stones. The road roller if properly used, will put all stones down and make it a splendid road to travel upon. More care should be taken in the making and management of our roads.

FAIRS MUST BE KEPT CLEAN The following despatch from Wood-

bridge, Ont., was published recently in one of the Toronto papers:

"As in the case of all fairs through out the country, the confidence men and owners of chance games were on hand in force. So prominent did two of the layouts become that Magistrate Sam McClure took a hand in the proceedings and made a summary conviction on the grounds, both owners being assessed \$20 and costs. The arrests and convictions were so quietly and promptly effected that the crowd was not aware of what had taken place. The directors stated that they intended to enforce the law in this regard."

It is most remarkable that every time a society is caught running games of chance upon their grounds, and the sharpers are convicted, that the directors always declare that they had no idea that such things were taking place on the grounds. If they do not know the nature of the games being operated, then they are not proper men for directors. Ignorance is no excuse. The law states that a society that runs games of chance on its grounds shall forfeit its government grant for the year next ensuing.

One reason why Farm and Dairy keeps hammering at this question is Lecause it is constantly receiving evidence of the manner in which these sharpers defraud the public. Within the past few days our correspendent in King's Co., N. S., writes us as follows :-

"There were several fakirs playing their games of chance at our fair at which small youngsters lost heavily. The fakirs and the societies which permit them to operate should both be taught a severe lesson. This is the only way in which this evil can be driven out of the country. We must keep our fairs clean

A Remedy Needed

(Peterborough Examiner) In another column of this page is reproduced an important article from "Farm and Dairy." It is well worth the study of every 'The unfair burden on the farmer' is additional to what he has to bear in respect to bad roads. If, as asserted in the article named, the farmer is subjected to bearing an unfair share of taxation to the advantage and relief of the cities and towns. he creates and maintains, a remedy should be provided. But who could be brought to believe that the farmer realizes the burden of unfair taxation, if he quietly submits, as he has done and is doing, to the burden of bad roads? "Farm and Dairy" pertinently inquires: "If our farmers are increasing the value of land in cities, should they not reap their share of the enhanced value?" In justice they should do so. But the remedy proposed-the single tax principle-will be slow of attainment and will only remedy, if it does that, one part of the Lurden that oppresses the farmer. It may readjust taxation more fairly, but it still leaves the burden of bad roads to be entirely borne by the farmer.

Why Do They Do it?

(Toronto Star) On a beautiful sunlight October day two passengers were looking out of their car window and admiring the rich coloring of the Ontario woods, when one of them invited the other to observe the farm houses along the line. For the most part they were handsome brick dwellings, each attended by large frame barns, set on stone foundations.

But do you notice that in these houses every window is tight shut? Where there are shutters the shutters are closed too. Take that house-the kitchen door is open, but that is for convenience, no doubt, not for fresh air. All the windows are closed down fast.

It was true. All along the line for miles the houses were sealed up close, except for an occasional door, in which usually the figure of a woman would appear as the train went by. The day was warm, and the golden sun and fine air of October carried life and energy wherever it reached. But the farm houses within sight of that railway line on that day were shut and barred against sun and breeze, as if they carried pestilence instead of death.

Why is it? Is it the habit of w.n. ter carried into summer? If so, the sealed house, even in winter, is a mistake, for cold air is as bad as hot if not fresh and new. Or are these hand-

sun m parlor What unless to blow both su comed doors. 1 mostly to dwel being c effect o is to p tempers.

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In the every ye bedroom wide ope who doe that he the room the nigh not have apartmer unrefresh it seems, ed enough Resees Crea

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ment for 19 Qu'Appelle Tantallon Birch Hills Lloydminste

The above of butter at from May 1 ber. Lloydmi July 22nd, 1 result of nir The numb eam last se year the crea ed by 890 fa

The total n of September pounds, while of 291 utter is rap from the fact has been sold creameries th playing fair at avily." which

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comed through open windows and doors. Healthy people whose work is mostly in the open air may manage to dwell in a sealed house without being conscious of injury, but the effect of such houses nearly always is to produce bad health and bad

In the cities more and more people every year are sleeping in verandah bedrooms, or in rooms with windows wide open the year around. The man who does this for a while soon feels that he would stifle in his sleep were the room closed. If he should spend the night in a place where he cannot have the outside air entering his apartment he rises in the morning unrefreshed. The gospel of fresh air it seems, has not as yet been preached enough. Receeeeeeeeeeeeeeee

Creamery Department

Butter Makers are invited to send contributions to this department to the department of the departm

Dairy Progress in Saskatchewan

Dairy Frogress in Gashatellewais With the rapid development of the Province the extension of the dairy work, under the supervision of W. A. Wilson, Superintendent of Dairying is showing results in keeping with the Government's offerts to encourage. wilson, Superintendent of Dairying, is showing results in keeping with the Gorment's efforts to encourage and the superintendent of the superintendent of the dairy industry by the success of the dairy industry by the umber of creamerism operation. It is the policy of the Saskatolwan Government to encourage the policy of the Saskatolwan Government to encourage the creameries unless there is every consistent of the superintendent of the s

The above figures show the output of butter at the respective creameries from May 1st to the end of September. Lloydminster creamery opened on July 22nd, 1900 and the make is the result of nine weeks operations. The number of patrons sending cream last season was 553, while this year the creameries are being supported by 850 farmers, or 347 more than last season.

the very product he is going to market. The destruction begins at once of September last year was 194,617 pounds, while this season shows a make of 291,863 pounds. That the futter is rapidly marketed is evident from the fact that everything to date has been sold and although in the six creameries the weekly make is about

some farm houses kept closed so that flies may not get in, or that dust be kept out, or that the beams of the sun may not fade the finery of the parlor or spare bedroom. Out of the six ceameries, four have signified their intention of operating during the winter months. This, in view of the good crops that have in the sun the sun that the sun to blow through it, and the beams of to blow through it, and the beams of both summer and winter sun are well-both summer and winter su

U. S. Duty on Cream

U. S. Duty on Cream

Recent changes in the United States tariff in regard to cream have resulted in a considerable adventure of the suited in a considerable adventure of the suited in a considerable distance from the intractional boundary.

A. Ruddick, Dominion Dairy Commissioner in a press report calls attention to an unexpected advantage acrising to Canadian dairymen as a result to Canadian dairymen as derical error, but the effect of it of the dairymen acress the border. Some 12 or 1 canadian across the border. Some 12 or 1 canadian dairymen across the border. Some 12 or 1 canadian dairymen across the border. Some 12 or 1 canadian dairymen across the border. Some 12 or 1 canadian dairymen across the border. Some 12 or 1 canadian dairymen across the border. Some 12 or 1 canadian dairymen across the border. Some 12 or 1 canadian dairymen across the border. Some 12 or 1 canadian dairymen across the border. Some 12 or 1 canadian dairymen across the border. Some 12 or 1 canadian dairymen across the border across the canadian dairymen across the border acros

Cream on the Farm

Cream on the Farm

The dairy industry is not the main business of farmers, but rather a side issue, forced upon them by adverse conditions or aggressive creamy agents. The farmer seldom gives serious attention to the careful handling of his cream. He has the cows and the operator and the market that takes in the conditions of agreement and the aggreement of the condition of his cream. He has the cows and the operator and the market that takes in the condition of the condition of the condition of his cream and the condition of the partors of the condition. Now, however, timeles are cameries are requiring quality self-creameries are required properties. The self-creameries are required properties of the condition.

The condition of the creameries are required properties of the condition of based of such dirt carries with it a particle of such direct carries are consistent of the conditions which self-creameries familiar. The corn require proper food, warmth and moisture. All of the conditions which best promote the growth and thrive. These must be foliong to market. The destruction between maintained.



The Cows on a Thousand Hills

Get full credit when the

De Laval Cream Separator

SKIMS THEIR MILK

Free Book

THE DE LAVAL SEPARATOR

173-177 William St. MONTREAL

VANCOUVER

WINNIPEG

him a damp cloth and carefully wipe off the udder and the parts immediately around it, the trouble will to a grear extent be prevented. All of the coarse extent be prevented. All of the coarse with the prevented and the part is a strainer. There never was a cloth strainer used that would not in a few days become yellor and smell bad. Under the best conditions, where the stable of a fine the part is required but a few moments of extre time and prevent much after trouble in the way of sour and ill-flavore cann. The cow should be milked in place in which the air is free from the stable, never feed, or see hay, or clean out the place, or or be hay, or clean out the place, or or be hay, or clean out the place, or or be hay, or clean out the place, or or be hay, or clean out the place, or or be hay, or for the day should be so arranged that this can be done. Do not use a cloth strainer. The one of the milk still has the animal heat in it. The work of the day should be so arranged that this can be done. Do not use a cloth strainer. The ream should be so arranged that this can be done to the day become yellor and smell beat dunder the best conditions, where stands are not be such that the same that the sum of the day should be so arranged that this can be done. Do not use a cloth strainer. The ream should be so arranged that the sum of the day should be so arranged that this can be done. Do not use a cloth strainer. The ream should have the strainer mise as the strainer where we have the strainer of the day should be so arranged that this can be done. Do not use a cloth strainer. The ream should have the strainer of the day should be so arranged that the strainer mise and the solid dirt that may be in the milk still the strainer. The ream has dead that would not in a few days become yellor and sum of the strainer mise and the sum of the strainer mise and the strainer mise and the sum of the strainer. The ream has dead that strainer and that the strainer mise and the strainer mise as a strainer. There never was a cloth

Champion Evaporators Make Better Syrup



"CHAMPION" EVAPORATOR

How can you reasonably expect to receive good returns from out-of-date kettles and pans? Give your maple grove a show by using a Champion Evaporator and you will obtain the Gardiness of the grown of t

THE GRIMM MFG. CO. 58 Wellington St., MONTREAL

It is desirable to mention the name of this publication when writing to advertise

Octob

Makers are invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to suggest subjects for discussion. Address your letters to The Cheese Maker's Department.

Concerning the Makers Wages

Ed. Farm and Dairy,—From time to time we hear a great deal about the remuneration of cheesemakers bethe remuneration of cheesemakers op-ing inadequate. I notice however that it is only the money received by the man, who is proprietor, or by

by the man, who is proprietor, or by him who takes charge of a Company factory for so much per 100 lbs. that is ever discussed.

Throughout the Western section there are a great many men owning factories who, though professedly chesemakers, are either too lazy or too much behind the times, to active manage the actual making.

men require and depend on what is termed a "First man. wages paid such a man, to whose skill and exertion, the real success of and exertion, the real success of the factory is due, are something like \$30 or \$35 a month; in some extreme cases \$40, with board of course. In large factories there may be a 2nd large factories there may be a 2nd as well as a 3rd man, the second receiving \$25 to \$30 and the 3rd, \$15

to \$200.

Contrast this remuneration with what these same men, with as much or less experience in butter-making, can demand. Incidentally I may remark that I am in the position of comparative experience in both cheese and lutter water and lutter. comparative experience in both cheese and butter making, so I can speak from experience. For a first man, butter-maker, \$65 to \$75 and even \$80 a month are paid (board at say \$16 a month must be deducted mak-ing \$49, \$59, \$64. No man can make haliwa that huttar-making is as ing \$49, \$59, \$64. No man can make me believe that butter-making is as hard physical labor, that it requires as much experience, or that as much study, or mental activity is required, as in cheesemaking. Why this des-

When I started in to make butter, I had previously chiefly made cheese.
I was told by a cheese factory proprietor as described in the foregoing that no doubt I would get a little that no doubt I would get a little more money for the present, working for another man but when I was own-ing a factory of my own, I would be much better off with a cheese factory. If this is so, why don't the pro-prietors pay wages to those who make

their conditions better than the own-er of the creamery. Is it any wonder that so many promising young cheese-makers, switch around and go off butmakers, switter-making?

CREAMERY WANTED

With Good Facilities for securing good supplies of Cream winter and summer. State full particulars.

BOX No. 45, FARM AND DAIRY.

Cheese and Butter **Maker Wanted**

THE MARION BEAVER CHEESE THE MARION BEAVER CHEESE AND BUTTER Co. will receive tenders up to Nov. 15th for a cheese and butter maker for the season of 1910. The maker to furnish all supplies—box the cheese ready for shipment. All supplies for the tenders of butter to be supplied by range of butter to be opened at the Council Chamber, Palmerston, on NOVEMBER 15, at 2 p.m.

Tenders must be addressed to G. V. POOLE, PALMERSTON SECRETARY OF THE CO.

The make is about 100 tons of

It is always said that cheese factory proprietors are so jealous in their var-On this question of paying starvation wages, they seem to unite very completely.—Ronald Macdonald.

Pasteurizing Whey of Great Benefit

Ed Farm and Dairy,—Allow me through the medium of your valuable paper, to give my experience of the benefit derived from pasteurizing whey. Ours was one of the first factories in Western Ontario to start pasteurizing whey. It has proved to be very beneficial, both to the patrons and the makers and has helped in many ways to produce a far Letter

have found since pasteurizing Thave found since pasteurizing the whey that our cheese has great improved in flavor. This improvement can easily be traced to the changed condition of the cans due has greatly the whey being heated up to 160 de-grees. It is thus returned in a sweet condition at a temperature of about 140 degrees, which scalds the cans, thus making them far easier for the patrons to keep sweet and clean. Be-fore the whey was pasteurized the cans were sent home empty. Any milk which might be left in the cans patrons to keep sweet and clean. quickly adhered, making it more diffiquickly adhered, making it more dim-cult for the patrons to keep them sweet and clean, unless scrupulous-ness was exercised in cleaning the

With regard to the patrons whom regard to the patrons (or whom there are over 180) as to the condition of the whey sent home, they all speak very highly of it for feedan apeak very highly of it for feed-ing purposes, and many have person-ally told me they would rather be without the whey, than have it returned not pasteuriz

ed not pasteurized.

Pasteurizing has been a preventitive of the bitter or yeasty flavor in cheese. This flavor was certainly a very great source of trouble to makers before the whey was pasteurized, but now I am glad to say that I have not had one sixubel. not had one single cheese with have not had one single cheese with this flavor since pasteurizing the whey. I certainly think from my ob-servation of the condition of the milk which is now being sent in, that the which is now being sent in, that the patrons are taking greater care and trouble over their milk, especially as they find that the cans are far eas-ier to keep sweet and clean than be-

With regard to the whey-tanks, the task of keeping these clean, which was a very difficult thing before was a very diment thing before pasterrizing, is now comparatively easy. The tanks can be easily washed in a few minutes.—Roland Johnston, e-maker.

Bright Factory, Oxford Co., Ont.

Over Ripe Milk

What is over-ripe milk? It is milk with one of the agents used in chee making out of proportion; or milk with the lactic acid developed in too great a degree in order to obtain the very best results in converting the milk into cheese. What are the agents used in separating the solids agents used in separating the solute from the moisture or water content of the milk? They are rennet, heat and acid development, together with the cutting of the curd to get it into a convenient condition for the escape of the moisture. The heat should not be applied until enough milk is in sight to fill the vat. Why? Because as we raise the temperature we make more favorable conditions for make more favorable conditions for the development of acid. Heat as quickly as possible to 82 or 83 deg. Fahrenheit and after testing for acid-ity set at this temperature. Why? ity set at this temperature. Why? Because, first, 82 deg. is less favorable for acid development than 86 deg. Fahrenheit, and the time for heating to 86 deg. is saved; and what is more important, you are able to get the rennet in sooner and a large quantity of it. thereby exiting the acid we. ty of it, thereby getting the acid un-der control more quickly; if not under control it is difficult to get it to work in conjunction with the other agents which contract and expel moisture from the curd.

In handling over-ripe milk we think it is always advisable to use more renit is always advisable to use more ren-net—at least one ounce more per thousand pounds of milk, for several reasons: first, that it may coagulate the milk more quickly; second, it gives a firmer curd more quickly and renders the curd less liable to be broken when handling it, thereby say-ming to a great extent the great loss which usually is sustained from mak-ing over-ripe milk into cheese. It also helps to break down the caseous matter in the cheese, giving it a betthat the cheese, giving it a bet-ter texture. Commence cutting the curd early and cut rapidly so as to keep pace with the rapid firming of the curd. If this is not done the curd will get into a condition which makes it very hard to cut properly. Use the one-quarter inch knife rather than cut the curd four times, leaves the curd more uniform and better condition than when it is chop-ped finely. Heat quickly, and if ne-cessary raise the temperature two or three degrees higher than for normal

Here is where a great many chees Here is where a great many cheese-makers make a mistake, by stopping the stirring and running off part of the whey when the curd is quite soft; while the whey is running off the curd is matting, then they go at it with the little rake and break it all up, thoraby liberating the curd is matting, then they go at it with the little rake and break it all up, thereby liberating a lot of the milk solids, giving them a high acid reaction in the whey, and the result is they have a sweet curd and a sweet

Just stop and think for a minute which is likely to do the more ef-fectual work, you with a rake, or the acid development in conjunction with the heat and rennet with the heat and rennet action? The natural tendency for this kind of curd is to run together, so the best way is to keep it stirred in all the whey until it firms up a little. Hard raking does not firm the curd, except in so far as it breaks the cubes. If agitators are used the curd can be kept apart and the whey lowered kept apart and the whey lowered quite soon enough without resorting to this rough handling. One can readily see that if the whey be lowered quite close to the curd while it is in a soft condition it will be quite difficult to keep it from matting; and while you keep it apart with a small rake you come to apart with a small rake on the control of the control of the control loss, and also causing rough texture in the cheese the cheese.

It is always advisable to have the whey run down shortly before the dipping point is reached to avoid being caught with too much acid. When ing caught with too much acid. When the curd is in a soft condition it is advisable to dip with slightly less acid and to keep it in a loose open condition in the curd sinks until all the surplus moisture is drained from the curd. If the curd is still a little weak, mill slightly earlier than usual. If not, treat as a normal curd. M ture the curd well before salting.

A word to the cheese maker: Attend some dairy school, as it will make you a stronger and more competent man in your profession. I will go further and say the owners or managers of factories should insist upon their makreactives should insist upon their makers attending some dairy school, if they have to pay the cost of so doing, as it makes them more painstaking and saving with the product they manufacture.—J. Howie.

I have just received from Matthew Standish, of Rougemont, Que., a Chester White pig, as a premium for securing seven new subscriptions to Farm and Dairy. The pig was seven weeks old and promises to be a good specimen of the Chester White breed. Accept my thanks for my valuable premium, which has amply repaid my efforts for securing the new subscribers.—John Manson, Waterville.

TWO WOMEN

These women start to wash their cream separators. The up-per woman has a simple, sanitary Sharples Dairy Tubular Separator —with nothing inside the bowl but the tiny piece here shown in the dish pan—and washes the entire bowl in two The lower woman

has a common, disk-filled cream separator-with 40 to 60 disks inside the bowl-and spends twenty minutes
washing the
bowl. She wishes
she had a Tubular.

yrs

Sharples Dairy Tubulars are just a much better ail othe ways. The World's ways. The World best. Sales easily exceed most, if not all, others com-bined. The manufacture of Tubulars is one of Canada's leading

WRITE FOR CATALOGUE NO. 050 THE SHARPLES SEPARATOR CO. Toronto, Ont., Winnipeg, Man.



SHAW'S BUSINESS COLLEGE

Located at Yonge and Gerrard Sts., Toronto, and at 1758 Dundas St., West Toronto, and at 1758 Dundas St., West Toronto, prepare young men and wo-men for earning good salaries. Fall Term now open. Enter any day. Par-ticulars sent on request by postal, or telephone Main 2388.

W. H. SHAW, President

THE KENNEDY & DAVIS MILLING COMPANY, LIMITED Of LINDSAY, ONT.

Are Manufacturers of a large

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Also the Celebrated Washburn & Biehn Clothes Reel Our goods are the very best on the market

AGENTS WANTED in every village in the Counties of Peterborough, Durham Victoria and Haliburton.

Correspondence Solicited

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TWO CENTS A WORD CASH WITH ORDER CHEESEMAKER WANTED.—Half interest in up to date factory, and make the cheese, \$1,000.—Box 15, Farm and Dairy. Peterborough.

WANTED.—Cheese factory to rent, or make by cwt. Apply to Box 77, Farm and Dairy, Peterboro, Ont.

and Dairy, Feterbolt, One.
CHESSEMAKERS-Can secure good winter
employment by working for Farm and
Dairy. If you mean business and are
anxious to earn a good business and are
for full particulars to Circulation Manger, Farm and Dairy, Peterboro, Onl.

HEN M man She wore of circle of in spite of gave an in sort of mal eyes between ronts glean Her mouth grim twist. which clutch There was ne Gore, but th sity which n pose. In all screamed, bu scream. Her constant stra had no one let loose this scolded in so seen opponen nah Dodd ke Maria Gore it that morn man sitting

"Here they clared Mrs. face and twis nantly. "Eve MacFarlands Alice is engag a millionaire. tion to spend and have thir brick oven, a range taken d opened, and the roasted on si way; and here only two days letter only cam Tommy Simmo They wrote me sudden fancy Farland says, days to get re the brick over MacFarland. I will draw for forty years you've got to g you came prepa "Yes, I calcute to work," said

defiant face.

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ISAPPOINTMENT should always be taken as a stimulant, and never viewed as a discouragement.



The Strike of Hannah

Mary E. Wilkins Freeman

THEN Mrs. Maria Gore began to talk. She was a very small old lady in an ancient black silk with many high-lights of gloss. She wore a large brooch and civil of air hair set in a pite of her age and small size, gave an impression of force, and a sort of malicious power. Her black eyes between her two folds of false fronts gleamed as sharply as a cat's. Her mouth was small with a curious gain twist. Deep ruffles for lace and so when the set in the control of the set in the control of There was no repose about Mrs. Maria Gore, but there was restrained inten-sity which might be mistaken for re-pose. In all her life Maria had never screamed, but she would have liked to scream. Her one safety valve was her scolding tongue. That relieved her constant strain of spirit. When she had no one present unon when the constant strain of spirit. When she had no one present upon whom to let loss this vituperating lash, she solded in solitude, as if at some unsen opponent of rate. Where Hannah Dedd kept still and revolted, Maria Gore expressed her state of the state of

befant face.

"Here they are, all coming," dedefant face.

"Here they are, all coming," dedefant Mrs. Gore, scowling her old
face and twisting her mouth maligantly. "Every one of them; all the
MacFarlands and that young man
MacFarlands and that young man
MacFarlands and that young man
MacFarlands and they say he's
mailtonire. They have taken a notion
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Mr. such folks."

Mr. such folks. "Mr. such folks."

Mr. such folks. "Mr. such folks."

Mr. such folks. "Mr. such folks. "Mr. such folks."

Mr. such folks. "Mr. such folks. "Mr ancient bedrooms had to be aired and put in order, and that was no small task, for Mrs. Maria Gore was but an indifferent housekeeper, but only troubled herself about her own particular comforts. A man came in twice a day to care for the kitchen furnace, and she lived comfortably in the midst of dust, while she was warm, and had her own little dainties for meals. She or clust, white she was warm, and mad her own little dainties for meals. She cooked her meals, and that was about all Mrs. Maria did. As for her own between the midst of her deep her with the midst of her deep her with the midst of her deep her with the she said ont disturb for which she said not disturb for which was to said the said of the window in the said the window in the

14 MONTHS FOR \$1.00

Take advantage of our Fall Subscription Offer. Send in New Subscriptions now. They will be dated January 11. Fourteen months' Subscription to Farm and Dairy for only \$1.00, including our Special December Magazine issue. Subscriptions taken for 14 months at \$1.00 are easily secured. Start a Club and work for some premium shown in our New Premium List. These Premiums will make first-class holiday gifts. Write Circulation Manager, FARM AND DAIRY, Peterboro, Ont. for copy of Premium List.

the sake of leaving it to some farof relations (they haven't a near one
to my knowledge) they can. It is,
free enough with his more. It stake
free enough with his more. It stake
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so my so work.

I annah hat fish.

I annah ha and asked what ahe should do first.

"It guess you'd better go and see that the bedroam are opened, and the should do first."

It guess you'd better go and see that the bedroam are opened, and the should do first. "It guess you'd better go and see that the bedroam are opened, and the should do first."

It guess you'd better go and see that the bedroam are opened, and the should do first. "It guess to get nearly are are only two days to get ready for them. Heat the should have and things aired first," said was the should do first. "It guess they find the should do first."

Mars. Gore, "said she, "I'm will-in' to do all I can, but I ain't willin' to do what I can't, and you may just steam-heated house. Mire grows S. had a hot-air furnace put inere last hear the steam of the steam of the sort, and you want to do you've got to go to work."

"Yes, I calculated you wanted me to work," as and the said Hannah, stiffly. She had her apron in a bundle. She she work," said Hannah, stiffly. She had her apron in a bundle. She she were will up to work, as and the should do first.

"Yes for tryin will-in' to do all I can, but I ain't willin' to do what I can't, and you may just as well know it."

"What do you mean?" inquired Mrs. Gore, snapping her black eyes at her work, said Hannah, stiffly. She had her apron in a bundle. She she were with per walked in the street with her spron on. She had a certain vanity in spite of humble estate.

"Well put your apron on and get low ork," said Mrs. Maria Gore.

"Well put your apron on and get low ork," said Mrs. Maria Gore.

"I'm all have to step pretty fast, for different many the step of the step

their being here. But that's the way "and I'll get them turkeys and chickwith such folks."

Mrs. Maria Gore had said that last with malignity and pride, which made a curious combination, and Hannah Dodd had gone immediately to work. There was an enormous amount of work to do. Mrs. Maria Gore was unaccountably parsimonious with the unaccountably parsimonious with the Heaven can't do what he can't do, and I can't.

Farland, and resented a hint that "Well." said Mrs. Maria Gore.

and I can't.

and I can't.

Well," said Mrs. Maris Gore.

"I'll get the brick oven het up

"I'll get the brick oven het up

the Mr. Slocum gits it fixed," said

ffarah and then at injun puddir,

can be baked in it, and you can do

jest as you are amind to do about

tellin them that the other things

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and especially about such little things I don't believe in tellin' lies anyhow and especially about such little things and especially about such little things and contained by the co

It was a hard-fought one, although it was in a kitchen and the weapons in use were domested utensils generally considered to lead the second and the second with no compunction and the old woman's black eyes opened upon her viciously from under the flapping ruff of her nightcap.

"Well, I'm through for to-night," said Hannah Dodd.

"Then why didn't you go home and lock the back door and take the key, so you can get in early in the morning and go still, and not wake me up this time of night!" demanded Maria

Gore.

"I waked you up because I wanted my pay for these two days' work," said Hannah Dodd. "I kept thinkin' you would say someting about it before you went to bed, and to dun. Then the first thing I know you had gone to be dat half-past seven, and I heard you snore, thought I might just as well wait till I was through and wake you up them."

"I never snored in my whole life," declared Maria Gore, "and I haven't been asleep more than fifteen min-

"Well, I don't mind whether you think you snore or not," replied Han-nah Dodd, "but I want that two dol-lars."

(Continued next week.)

Our New Cook Book free for only two new subscription

We sometimes hear people express wonder as to why it is that God per-mits so much sin and misery in the world. They say that if God is a God of love, as the Bible states, He must have known that people would sin be-fore He created them and yet He per-

fore He created them and yet He per-mitted them to be born. How could He do this, if He loved them? There are many things in the Bible that we can never hope to understand in this world. Unless we can trust. God's love we can have no part with Him. This howawar is not one of God's love we can have.

Him. This, however, is not one of them. God knew that people would them. Him. This, however, is not one of them. God knew that people would sin but at the same time He warned them not to. He told them what would be the consequences of their sin. He gave them the Book of Life as a guide to keep them from evil. He promised to give them good gifts in this world and eternal life in the same that the come if they would but have fait to come of the fait of the fait

Improved Roller Gear

OF THE "Puritan



"Favorite" Churn

Is the favorite. There are m ite' churns sold in Canada than all other makes combined. Patent foot and lever drive. Made in 8 sizes to churn from ½ to 30 gallons of cream. If your dealer does not If your dealer does not handle these household favorites, write us.

DAVID MAXWELL & SONS St Mary's One

The Upward Look

The Decision Rests with Us
And ye will not come to me, that
ye might have life. John 5. 40.
We sometimes hear people express
wonder as to why it is that God perwonder as to why it is that God perthe difference between good and will. God has better things in store for is. than He has for mere brute animals. In order that we may deserve them He has given us a conscience that enables us to tell what is right and what is wrong. This, of itself, is a wonderful gift and it is our duty to use it wisely and prayerfully. When, however, we refuse to take advantage of this power and refuse God's profered love we only are responsible.

As I live, saith the Lord God, I have no pleasure in the death of the

As I live, saith the Lord God, I have no pleasure in the death of the wicked, but that the wicked turn from his way and live; turn ye, turn ye from your evil ways; for why will ye die? Ezekiel 33. 11.—I.H.N.

N 16 16 A Modern Water Supply

An attractive farm home is sho n page 15, the home of 1 An attractive farm home is shown on page 15, the home of Mr. J. W. Richardson, of Haldimand Co., Ont. One of the pleasing features of this home is the concrete walks around the house, and the profusion of flower beds and plants. The exterior of the home is even more attractive and pleasing. tractive and pleasing.

THE WATER SYSTEM THE WATER SYSTEM.

The water system and bath room in the home of Mr. Richardson will appeal to every farm wife, who knows the need and comforts derived from

the need and comforts derived from an abundant supply of good pure wa-ter, both hot and cold. Miss Richard-son writes Farm and Dairy: "Our bathroom is 7 x 13, and has one window overlooking the back yard. It is situated near the centre of the second floor. The walls are painted, and a light olicloth covers the floor.

The water is supplied from a tank lined with lead, which is about 3 x 3 x 14 ft, and is placed over one end of the bathroom and the back hallway. The rain water runs off the roof into this tank, but in times of shortage water can be pumped up by a wind-mill from a soft water cistern at the barn. We have both hot and cold wa-ter taps. The hot water is heated by a range in the kitchen at little or no expense

no expense.

The bathroom is properly fitted up, and plumbing was done by a qualified plumber several years ago at a cost of a little over \$1.

All sewage from the house is connected with a 4 inch tile, which empties about 40 rods from the house. All pipes emptying into the sewer are properly fitted with traps, preventing any odors from escaping.

odors from escaping. any odors from escaping.
We find the bathroom very convenient and would not like to do without it, as it saves many steps in cases of

. . . Conveniences on the Farm

Laura Rose, Guelph

Loura Hose, Gwelph
Every farmer should endeavor to
put up ice for use in the summer.
Then would it be possible to have a
refrigerator or some kind of an ice
box in the home. At a place where
I visit occasionally, they have a large
well-made cupboard. The top was
well-made cupboard the top the couple of the co a tin pan made to fit down into the cupboard, sufficiently large and strong to hold a good sized cake of ice. A drain pipe carried off the water from the melted ice and emptied outside, so there was no fear of the drip pan running over. Perforated tin shelves completed this home-constructed refrigerator. It stood at the kitchen door in the woodshed. The people always put up plenty of ice and did not mind being extravagant with it.

There is no running downstairs with

There is no running downstairs with eatables in that house.

The pully clothes line is another contrivance that a kind husband put up for his wife. She can stand in a sheltered corner of the back porch and hang her clothes out without having to be in the hot sun of summer or tramp through the snow in winner.

Another much appreciated comfort Another much appreciated comfort is the screened-in porch. I have seen sometimes the back porch and sometimes the front porch all screened, and have felt the luxury of either working or lying in a hammeck unmolested by the tiresome flies and irritating warming when the porch ritating mosquitoes. When the porch is large enough I have seen it used as a summer dining room.

... A Practical Kitchen

By Fleeta Wheeler. The kitchen has been called "the pulse of the home," and it would seem a good simile, for when things go wrong in the kitchen the trouble apt to extend all through the

The very keynote of up-to-date home making is the saving of steps, the elimination of unnecessary labor,

the elimination of unnecessary lanor, and the lightening in every possible way of work that is necessary. The day of the large kitchen, in which the housekeeper walked miles during the week, is gone by, and these

old-time rooms have given place to what seems, in comparison, a mere box or cabinet; yet, these modern

kitchens are so complete, being plan-

own housework.

In the kitchen of a large house, it is necessary to study the matter carefully, and the first step is to remote all furniture except that which is really useful for unnecessary furniture means extra labor in dusting and deaning.

PROPER HEIGHT.

Make sure that the stove, the table and sink are of suitable height for your inches. Women are taller than they were a generation ago, and it may save a doctor's bill, not to mention the suffering involved, if the stove be set on bricks, the table on blocks, and the sink rebuilt to a convenient height. The back-breaking angle assumed by many women while in the kitchen is the reason for that weary, harased expression and for much real suffering. A high stool should also find a place in every kitchen, and nothing that can be done was the suffering that the suffering the suffering that the suffering the suffering that the suffering the

Do You Want to Save \$62 a Year?

You must pay the washerwomen af-teen cents an hour.

teen cents an hour.

It is hard earned money at that. If you do your own washing or have the servant do it, this steaming, backbreaking, hand-chapping, co'd-catching, temper-destroying work will cost upon more than 15 cents an hour in the end.

end.

It takes eight hours hard labor to do the average family wash.

Eight hours, at 15 cents, cost you \$1.20 per week for washing.

This means \$62.40 per year, without reckoning fuel for fires or wear on clothes. We will save you half of that-or No

Pay will send any reliable person our "yee will send any reliable person our "yee Gravity" where on a full month's free trial. We don't want a cent of your money nor a note, when we ship you the Washer on trial. We even pay all the freight out of our own pockets, so the freight out of our own pockets, on you like before you would be as much as you like before you had not a much as you like before you had not not a much us. It is not the freight of the send to the railway station, with our address on it-that's all.

We will then pay the freight back, too without a murmur.

But If the month's test convinces you that our "1990 Gravity" Washer

We will their pay the result back, too without a murmur.

But if the month's test convinces you that our "1990 Gravity" Washer actually does 8 hours' washing in 4 hours' time-does it twice as easy-far better, without wearing the clothes, breaking a button or tearing of lace.

then you write and tell us so.

From that time on you pay us every week, part of what our machine saves you, say 50 cents per week, till the washer is paid for.

Each "900 Gravity" Washer lasts at least five years, yet a very for months, at 50 cents per week, makes it entirely your own, out of what it saves you on each washing.

Every year our Washer will save you about \$62.00. Yet the "1900 Gravity" Washer will as event under our plan, because we let it pay for self. You need you have the self, you grove all we say, cloud you grave the self. You next the self washes terms.

Could we risk the freight both ways with thousands of people if we did not know our "1900 Gravity" Washer would do all we claim for it? It costs you only the two-cent stamp on a letter to us to bring this quick and easy Washer to your door on a month's trial.

That month's free use of it will save you about \$2.80. You thus risk nother by the postage stamp to prove our claims, and we practically pay you do to try it. This offer may be withdrawn at any time if it crowds our factory

Therefore, WRITE TO-DAY, while the offer is open, and while you think of it. A postcard will do. Address me personally for this offer, viz., F. D. Y. BACH, Manager "The "1900" Washer Company, 357 Yonge street, Toronto, Ont.

The above offer is not good in Toronto or Montreal and suburbs—special arrangements are made for these districts.

kitchens are so complete, being plan-ned with an eye to convenience and the saving of steps, that it is often possible to stand in the middle of the small room and reach every part of it, and in such a kitchen many a housewife finds herself able to do her own housework.

Perfect tial which kitchen th the house,

from bene

Octob

a little l

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the user leaning of instead of out the v same was basket on

This farm year. See des page 14, this i appear, on acc

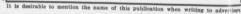
ing tooms. top of affords a con keeps the kit tle ventilator ranges, which through the cookery; it is to the range which all the placed and bu

TREATMENT The walls sl covered with smooth, hard time inexpens ing with soap work should b finish, prefera floor is of soft it with linoleu

If the floor be finished in either the oil do not scrub w or the finish wi cup of kerosene ter, and merely clean mop wrus ed up at once, remove the dust OTHER

Two necessiti kitchen are a preferably of wi keeps perfect ti of rest may be able covers; and timepiece it is in feetly and serv

The arrangem with its stores a with care, will alabor. The pant near the sink a should be a broad should be a product of the baking many show



1909.

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a little lower, should also be kept in the kitchen; it will prove useful in many ways. The mop-pail may be set on it, instead of on the floor, and the user can stand upright, instead of a leaning over to wring the mop. The clothes basket may be placed upon it, instead of on the floor, when wringing out the wash, and waw nanging the same wash upon the line, setting the basket on the stool saves the worker from bending over for each separate piece. place to a mere modern ng plannce and e of the part of many a do her ouse, it

VENTILATION.

Perfect ventilation is another essential which is more necessary in the kitchen than in any other room in the house, unless one excepts the sleep-

both for light and ventilation, and if shelves and woodwork are finished in white enamel, there is no need for very solicity of the property o

The flour barrels, containing bread and pastry flour, should always be kept where it is light and where a

A word as to proper kitchen garb.
A long apron of white butchers lines, which competely covers the gown of the wearer, with a cap that covers of the same wash easily, protect one's gown perfectly, and will wear for years. Moreover, with white, it is always possible to be sure that absolute cleanliness which makes for good health, is being observed.

*********** OUR HOME CLUB Kassessessessessessesses

Boys and Girls on the Farm

How are we to keep our young people on the farm? This subject should be studied more than it is, or ever has been. Many people say, 'make the farm homes more attractive, and provide more music, holidays, etc.' This has become an old

days, etc." This has become an old story.

There are very few farmers that have no music in their homes and as for holidays, the young copie on the farms have, I would say place to the farms have and the farms have and the farms have the farms have a seem of the farms have a seem of the farms have our High the country. Why not have our High the country. Why not have our High the country. Why not have our High the farms and cities should have all the forms and the forms and box for selling on 12 packs and box of the farms have our High and box, for selling on 12 packs and box of the course, the course of the farms have over the farms and added to the farms



Rall-bearing means easy running.
Powerful Spiral Springer that reverse
the motion, make quick work and
little effort make quick work and
little effort make quick work and
water to rail part into the tub.
Only 65 50—delivered at any railway
station in Onlive of Spirale.
Write for free booklet.

DOWSWELL MANUFACTURING CO. LAWTER,

HAMILTON, ONT.

FOUNTAIN PEN FREE





Attractive Home of Mr. J. W. Richardson, of Haldimand Co., Ont.

This farm is one of the competitors in our "Good Farms" competition this rear. See description of bath room and other conveniences in this farm home, on the like like issue. The many flower beds and fine walks mound this home do not appear, on account of the nearness at which this photograph was taken.

aspear, on account of the nearness at which this photograph was taken.

igg tooms. Holes may be bored in
the tep of the window sash; this
the barrels be set on wooden racks, on
steprate the constant current of air that
keeps the kirchen well ventilated; littouching them with one hand, they
can be tipped back from the position as
ranges, which however out of doors,
through the some phase of outside the control of the range on "incinent to attach
to the range an "incinent to attach
to the range an "incinent to attach
to the range an "incinent to attach
which all the dry garbage may be
placed and burned without odor.

TREATMENT OF WALLS AND FLOOR. THEMMENT OF WALLS AND FLOOR.

The walls should be oiled and then overed with shellac, for this gives a smooth, hard surface, is at the same time incepsive, and permits washing with soap and water. The woodwork should be given a hard enamel faish, preferably of white or light offers, never of dark paint. When the flor is of soft wood, it is best to cover it with lindledum.

in thi linoleum. It is best to cover in the linoleum of the floor is of hard wood, it may be finished in oil, and in earing for either the floor with soop and hot water, do not serul. Will soop and hot water, or the finish half a paid of the floor with the floor is wiped and the floor with the floor with the floor with the floor with the floor is wiped up at once, it is only necessary to remove the dust occasionally.

OTHER CONVENIENCES.

OTHER CONVENIENCES.

Two necessities for the convenient kitchen are a comfortable rocker, preferably of the convenient convenience and a clock that keeps perfect time; many a moment of rest may be taken in the rocker, which should have cushions with washield should have cushions with washield sources; and without a reliable timepicee it is impossible to cook perfectly and serve meals always on line.

time.

The arrangement of the pantry, with its stores and utensits, if done with care, will save much time and labor. The pantry should be vare are the sink and table, and there should be above about the sink and table, and there should be a broad shelf on which much of the baking may be prepared. Exercity pantry should have a window, and the should be a proper that the should be a proper th

MUSIC FREE CONTENTS OF SOME OF THE FOLIOS GIVEN AWAY

PARLOR SONGS CONTENTS:

CONTENTS:

Comin Thro' the Rys
Listen to the Mocking Bird
Ben Bolt (Don't you Remember
Sweet Alice)

Sweet Alice)

Massa's In the Cold Ground
Massa's In the Cold Ground
How Chai I Leave Thee
Juanita
Call Me Back Again
Heart Bowde Down
La Faloma
The Dore

HOME SONGS, VOL. 2 CONTENTS

CONTENTS

Annie Laurin Those Endearing Selieve Me fi all Those Endearing Young Charms

Old Black Joe

Ditie's Land (I Wish I was in Solitate) Selieve Selieve

HOME SONGS, VOL. 1 CONTENTS Home Sweet Home The Old Folks at Home



Way Down upon the Sur My Old Kentucky Home the Old Oaken Bucket the Old Oaken Bucket Nearer My God to Thee Afterwards One Sweetly Solemn Thought One Sweetly Solemn Thought One Sweetly Solemn Thought Love Old Newet Song Love Where Art Thou Down upon the Suwanes

POPULAR PARLOR PIECES Vol. 1

CONTENTS

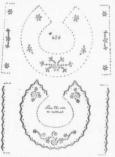
The Shepherd Boy The Maiden's Prayer Flower Song Black Hawk Waltz Secret Love Gavotte Remember Me La Paloma Warblings at Eve

ALBUM OF FAMOUS SONGS CONTENTS

Crole Love Song
The Monarch of the Woods
Toll Her I Love Her So
The Minstra Wedding Song
The Minstra Wedding Song
Tre Something Sweet to Tell You
Flee as a Blee
It was a Dream
Thy Face

We have arranged with one of the largest music publishing houses in the country to supply our readers with any of these folios, absolutely free of cost. The selections is each volume would cost you from it to #2 if purchased senerately. Look over the list. See which is your want. Send in your renewal to Farm and Dairy, or One NEW Yearly Subscription, and we will send you your choice at conce. Address.

MUSIC DEPT., FARM AND DAIRY PETERBORO, ONT. Resessessessessessesses



A26 Designs for Embroidering Infants

Stamped patterns for two yokes and two sleeve-bands to match each are given, one set plain, one with scallop-ed edges. The petals of the flowers and ed edges. The petals of the flowers and the leaves are designed to be worked either in solid embroidery or as eye-lets, the stems are designed to be out-lined and the dots can be made either solid or as eyelets. The scalloped edges are all to be padded and buttonholed.



Design for Braiding a Blouse and 427

Patterns for stamping front ick with strips for shoulders and

sleeves are given. Soutache braid (silk, mohair cotton) and rat-tail cord are appro-



424 Design by Embroidering a Blouse or Shiri Waist in Wallachian Style.

Designs for front, collar and sleeves are given. All the flowers, leaves and dots are designed to be worked in Wallachian stitch, the stems to be outlined. lined.

teen years, they must either remain on the farm with no more education, or else are sent to town or city before their characteristics and habits are formed. Often they grow up thinking as the town boys do, "that it is too slow for them on the farm."

too slow for them on the farm.

Who is to blame for this state of affairs. Should the intelligent farmers affairs and look into this matter, of Ontario not look into this matter, and see that they stand on an equal

and see that they stand on an equal basis with the city people for the education of their families? At least some of the country young people should be able to board at home, and get a good High School education at the same time. They might not enjoy all the advantages of town life, but I am sure that they would not have the temptations all around them that there are in towns. around them that there are in towns,

Where is there a true mother on the farm, but feels lonesome at the thought of John or Mary leaving home so young to go to a higher school? Her heart goes out with them, and if she could have her way a great many she could have her way a great many temptations of town life would be done away with before they left the home. Why could there not be a firstcome. Why could there not be a first-class college and first-class teachers provided for each county, and in some nice part of the country instead of the towns?

Would we not receive help from some of our best town people to build such a school? Perhaps they would like to send some of their young peop-le to such a school. Would it be an impossibility to have a van to go around in the mornings and gather the children and leave them at their homes at

If the young girls would stay on If the young giris would say the farms instead of going to towns and cities to stand behind counters all day, there would not be so many overworked mothers on the farms.—
"The Doctor's Wife."

. . . Our embroidery stamping outfit can be secured for 75 cents, or free, in re-turn for two new yearly subscriptions. Choice of any other three patterns, free in return for one new subscrip-

. . . Write for our New Premium List.

Eating for Strength.

The greatest pleasure to be derived from eating is the pleasure one gets in the knowledge that his food is giving him greater strength and vitality.

Because of this fact there is a constant increase in the consumption of Quaker Oats; every time the strength making qualities of Quaker Oats have been tested by scientific investigation or by experiments in families it has been found to be a food without an equal.

It builds the muscles and brain without taxing the digestive organs; it costs so little anyone can afford it, and it is so carefully prepared and packed that it is absolutely pure and clean. A Quaker Oats eating family is always a healthy family.

FOUNTAIN PEN FREE

To every lady and gentleman, girl and boy, for selling only 6 pairs of our patent hat fasteners at 25 cents per pair, we will give absolutely free a fountain pen; do not delay, send to-day; send no money, only your name and address, to:

Dominion Mail Order House Dept. 250 TORONTO - ONT.

THE COOK'S CORNER

Our New Cook Book given free for two new subscrit tions to Farm and two new subscrit tions to Farm and tion, are requested. Inquires regarding cooking, recipes etc., gladity answered part of the cooking that the cooking the cooking that the cooking the cooking that the cookin

Our New Cook Book free for only two new subscriptions.

VEAL AND HAM PIE.

Separate about 2 lbs. of veal from Separate about 2 lbs. of veal from the bones, which put over the fire in a kettle of cold water. Cook until the broth will jelly when cold. Cut the meat into small pieces. Make a veal forcement by cooking one small cupful of bread crumbs in a cupful of stock until they form a smooth paste. Turn on a plate to cool. Put pasto. Turn on a plate to cool. Put twice through a meat chopper enough raw voal of ill, and the past of the cool meat balls and so alternate layers unmeat cans and so alternate layers un-til the dish is full. Pour over the broth seasoned with salt and paprika, cover with pastry, and bake an hour in a moderate oven. Serve cold.

APPLE PANCAKES

Make a simple pudding batter, with baking powder, add mety chopped apples, and fry like ordinary grid-dle cakes. Serve hot, with sugar.

APPLE CIDER JELLY

To 1 qt cider allow 2 tablesp gran-10 1 qt cider allow 2 tablesp gram-ulated gelatine. Soften the gelatine in a little cold cider. Heat the re-mainder of the cider to boiling point, then add to it the softened gelatine and 1 lb. sugar. Turn into a wet mold and let get cold. Serve with top milk ore softened. top milk or cream.

CREAM OF CELERY SOUP.

Wash and cut fine 4 small heads celevy, and put in a stew pan with 1 pt being water; cook until tender, with wing water; beling point. Put 1 qt milk over bolling point. Put 1 qt milk over bolling point. Put 1 qt milk over beling point. Put 1 qt p Wash and cut fine 4 small heads celtablesp less.

SALMON LOAF.

BALMON LOAF.

Drain off liquor from a can of salmon, and with a fork pick the fish fine; pick out skin and bones. To the fish add 1 cup bread crumbs, yolks of the fish add 1 cup bread crumbs, yolks of the cup to the cup

SALMON CROQUETTES.

To a %-1b can salmon after picking bones and skin out, add 1 cup cold mashed potatoes, 1 egg, 1 onion cut fine, pepper and salt. Mix thoroughly, make into Lalls, roll in cornmeal, fry in deep fat, and serve hot. ...

I received the hammock for securare the farment for securing a club of two new subscribers to Farm and Dairy and am well pleased with it. I will try and secure some more subscribers for Farm and Dairy very soon. Thos. Thomson, Dundas Co. Co.

For cleaning stained sinks and graniteware nothing is better than a little hard coal ashes put through a fine strainer.

The sewing Room

Patterns 10 each. Order by number and size. If for children, give age: for adults, give bust measure for walsta, and walst measure for skirts. Department orders to the Fattern

CHILD'S DRESS 6428



Here is a pretty, dainty little frock that can be made from bordered mafrom bordered ma-terial or flouncing and with straight banding used for the body portion, and which consequently is simple in the ex-

Material required for medium size (4 yrs) is 1% yds of flouncing 20 in wide with 1¼ yds of baing 2½ in wide, 1 of material 36 in w

WAIST WITH GARNITURE 6449 A waist that trimmed with such



garniture as this one is both new and attractive. It can be utilized with any skirt, but is especially well suited to the semi-princese gown. There are plaits over the s ders which mea coming fulness the sl there are sleeves the very newest sign. The cheals and the undersla are of cream colo net, however, give

a bit of brightness and relief to the Material required for medium size is 32 yds 24, 2½ yds 32, or 1½ yds 44 in wide; 3 yd 24 for puffs, 1½ yds 65 silk for gameture, 5 yds 18 in wide for chemise te and under sleeves.

The pattern is cut for a 32, 34, 55, 35 and 40 in bust, and will be mailed on receipt of 10 cts.

FANCY BLOUSE 6441



The blouse that is closed at the left of the front is one of the very newest and latest. This one is cludes that feature. and also sleeves are made with inset puffs that are in the very latest style. If plain sleeves are preferred they substituted as in the back well adapted odd waist and entire gown. Material

for medium size is 3% yds 21 or 27, or 3 yds 44 in wide, and % yd 18 in wide is collar and cuffs, 3% yds of banding. The pattern is out for a 32, 34, 36, 38, 4 and 42 in bust, and will be mailed on re-ceipt of 10 cts.



The skirt that is made with a plaited flounce at the sides and back is always a pretty one and is greatly in vogue. greatly in volume while it can counted upon to can be absolutely smart for the coming season. The skirt is made in five gores with the straight plaited flounce.

Material for the 16 yr size 2 6½ yds 24, 6 yds 2, 3% yds 44 or 3 yds 52 in wide.

Renew your subscription now.

ANTIGO fair of t Associatio October, were brig which respect the any held there wer Most of the priz winn classes for purpose h Clydesdale Clydesdale
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fruit, grain -Tom Brow WICKLOW ing favor new ones le Some silos yet to fill. commonly g no frost as apples have is small bu pect tion. beets. The usual. It i it has been —E. B. H. DE

good even of roots a turnips wer any yet sl inces. Ther

BLACKSTO be completed the grain ha good. fall fair was both in qual were very la are probably township has only fair. Take was a put in the both in the bot put in the bris y elding m pected some farmers have for, and little

HAS

ACTINOLITE delayed on ac horoughly, as Many farmers their threship out much bett straw was sh well. Potatoes crop. They ar ber in the bill a bag in Two very good owin were an abuncis poor.—T. K. TURRIFF. -Farmers Peas v

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ANTIGONISH C.D., N. S.

ANTIGONISH — The fourth annual fall fair of the Antigonish County Farmers' association held on the 7th and 8th of October, was a grand success. Both days for which our climar, ideal fall days, for which our climar, ideal fall days, for which our climar, ideal fall days, for which our climar is a second of the property of the form of the fo

ONTARIO

NORTHUMBERLAND CO., ONT.
WICKLOW.— The allo seems to be gaining favor and the seems to be gaining favor and the seems to be gaining favor and the seems to be gained to the seems of the seems

DURHAM CO., ONT.

-E. B. ...

BLACKSTOCK. — Threshing will soon be completed. Taking things all round he crain has turned out well; the quality is good. The show of grain at our properties of the state of grain at our many control of the state of the state

HASTINGS CO., ONT.

HASTINGS CO., ONT.

ACTINOLITE—Plowing has been much elazed on account of any weather, but the recent rains have sould be roughtly, and will facilitate a ground thoroughly, and will facilitate any though with their threshing; the grain has turned out much better than was expected. The grain weighs from the state of the state of

see an abundant crop. The apple crop is poor.—T. K. Threshing is about half of the period of the per

OUR FARMERS' CLUB in spite of the rold day. Visitors from the south were small and the south were restable and specially at the special sp

PETERBORO CO., ONT.

PETERBORO CO., ONT.

NORWOOD.—The farmers of this district me in the Norwood Council Chamber on Tuesday evening, October 19th to organ a farmers' cib. Mr. H. O. Duff, of the a farmers' cib. Mr. H. O. Duff, of the cib. The cib. The control of the cib. to the cib. T

BRANT CO., ONT.

D. C. BRANT CO., ONT.

PALKLAND. — PARTM work is well advanced. Quite a bit of fall plowing has been done. Potatoes are nearly all deg. and are a fair crop. The white grub and seab have injured them somewhat. As a refew in the control of the cont

WELLINGTON CO., ONT.

WELLINGTON CO., ONT.

FERGUS. — There has been very little rainfal fate, water is scarce and the wells are scarce and the rainfal fate of the scarce of

ELGIN CO., ONT.

FROME—Silo filling is finished, and threshing is nearly all done. Many siles the state of the st

HURON CO., ONT.

LIVE HOGS

We are buyers each week of Live Hogs at market prices. I For delivery at our Packing House in Peterborough, we will pay equal to Toronto market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you.

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

Grow TRANSFIRS FOR AUGUST, 1999
COW TRANSFIRS FOR AUGUST, 1999
The publication of these transfers is paid for by the Ribine-Pressian Breed-ers' Association:
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Creelman Bros., Gloverdale, B.C.
Alica Boteford, A. R. Atkinson to J. M. Kinson, Steveston, B. Atkinson to J. M. Amelia A., James G. Moorhead to Wm. Amelia A., James G. Moorhead to Wm. Higrinson, Inkerman, On.
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Alica Posch Sowilake, Lorne McCallum to M. B. R. Barr, Harrieteville, Ont.
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Alica Posch Sowilake, Lorne McCallum to B. R. Barr, Harrieteville, Ont.
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Edgeley Figure, Ont.
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Perfectly Safe and Reliable Remedy for Sore Throat Chest Cold Backache Neuralgia

Sprains Strains Lumbago Diphtheria Sore Lungs Rheumatism all Stiff Joints

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Here is a machine that will easily handle the heaviest load. Made with wrought steel frame, insuring great strength. Your boy can frame, the strength of the handle heavy loads easily as this style of the handle heavy loads easily as this style of the handle heavy loads easily as the style of the handle heavy loads easily as the style of the handle hoist and slow general handle has the hoist and slow general handle hand to be stopped anywhere without any danger of carrier breaking. Just get catalogue and read all about this superior carrier. Agents Wanted for Unrepresented Districts

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************************************ MARKET REVIEW AND FORECAST

trade conditions are favorable. The advance in the rate of money in Europe has had some effect on money conditions here, though the rates have not been affected as yet. Call 'Joans rule at about 4% and discounts at 6 to 7 per cent.

strong as a week ago. European buyers are not ready buyers of American whea-just now, believing the price too high for large business. There is also a just now, believing the price too high for large business. There is also a strong bear element in the speculative market, and the market is not so strong as a week ago. At the end of the week Wiminger and Chicago quotations were market at 97%c: December at 89%c more market at 97%c: December at 89% end and price are period of the second farmers evidently are waiting for higher farmers evidently are waiting for higher prices. On Toronto farmers' market fall wheat sells at \$1.02 to \$1.05 and goose at 56c to 97c a bushel.

COARSE GRAINS

Light deliveries of Ontario oats help to keep up values. Manitoba oats are eas-ier and quoted lower. Dealers hire quote Ontario oats at 375 to 38c outside, and 39c to 40c on track Toronto. The barley market is firmer, both for west-ern and Ontario barley, dealers quoting 50c to 58c a bushel outside for the litas to quality. Peas are quoted at 8.c effect utside on Toronto farmers, mars, oats sell at 42c to 43c; barly at 60c fic and peas at 85c to 90c a bushel.

FEEDS.

There is no change in the mill feed sit-uation. Manitoba bran is in more lib-eral supply at Montreal. The supply of Ontario bran does not increase much, Dealers here quote Manit ba ran at \$21 and shorts at \$23 to \$14, and Ontario bran at \$22 and shorts at \$34 a ton in bags in car lots on track Toronto.

The corn market rules quiet. A can corn is quoted here at 69 c to bushel in car lots on track Toronto.

HAY AND STRAW

More activity in the hay market is re-ported at Montreal, though stoc's are accumulating owing to the lack of space on ocean versels for export. Quo ations show little change and prices for based hay there are the same as a week ago. There is quite a demand from the ral-

POTATOES AND BEANS

POTATOES AND BEADS
The potato market rules steady. Quotaions at Montreal are 50c to 55c a bag
Quebces for car lots supplies are heavy here and quo-are 53c to 55c a bag for Ontarios, lots on track Toronto, and 60c to for Ontario and

in ear jots on track Toronto, and 60c to to 80c out of store. They sell at 75c to 80c a bag on the farmers' mayet.

There is more business doing in Ontario beans and the trade is active; \$1.6° to beans and the trade is active; \$1.6° to beans and the trade is active; \$1.6° to be 10c at Montreal, in ear loss three, with holder asking more money. Deal-ers herere asking more money. Deal-ers herere asking more money. ers here quote primes at \$1.75 and hand-picked at \$1.85 in car lots Toronto

EGGS AND POULTRY

EGGS AND POLITHY

Egg receipts are very light, not enough
to supply the demand, and storet eggs
have to be called upon to supply the
trade at country points. Fresh garberred
slock is quoted at around 23c in large
slock and the storet and the storet and the storet
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are s quote eggs to the trade at 26c to 28c for

Toronto, Monday, October 25th, 1992—
iseneral trade in most lines continues
good, the change to cooler weather have
ing stimulated trade in many lines. The
gradient of the change to cooler weather have
ing stimulated trade in many lines. The
gradient of the change to the cooler weather have
ing stimulated trade in many lines. The
pointry market has an easier tendency, though prices show little change.
The demand for the holiday is helping
trade conditions are favorable. The
data had some effect on money conditions
here, though the rates have not been
affected as yet. Call 'coars rule at abust
by and discounts at 6 to 7 per cent.

WHEAT

WHEAT

The world's wheat situation is not as

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The world's was as a section of storage in a was an easier tendency, was an easier tendency, was an easier tendency, was an easier tendency, was an easier tendenc

FRUIT

The apple market is more active and buyers are much keener on the buy than they were a week or two ago. Reports west of here indicate they are pick ag up everything they can get a hold of, payers they have been apply to the second of the se Good well packed fruit reported. Good well packed fruit is worth money. At Mentreal choice win-ter varieties are selling to the trade at \$\$1 to \$4\$ and inferior at \$15.90 to \$25.0 a, bbl. Account, sales of some resent sh p-ments netted \$240 to \$35.0 and in some cases \$3.75 a bbl. The wet weather has interfered somewhat with the trade on Toronto fruit market, though receipts have Lean beave. Grange continue in have been heavy. Grapes continue in large supply. Quotations are as follows: Peaches, 55c to 65c; apples, 14c to 25c; crabapples, 20; to 36c; pears, 50c to 60c; grapes, 12/2c to 25c, and tomatoes, 15c to 70c; a backs.

DAIRY PRODUCTS

DAIRY PRODUCTS

The decline in the cheese market has caused more active business. It is felt now that prices have reached bed-rock for this season, and that from now on they will improve. About 10% was about

they will improve About 195c was about the viling figure at the local cheese boards the end of the week. Dealers here quote cheese to the trade at 12% for Large and 125c at 1b for twins.

A duller and easier market is reported. A duller and easier market is reported quoted at about 26c; supplies of choice quoted at about 26c; supplies of choice ereamery and dairy prints as well as the best solids are scarce here, and the market for them is firm. Wholesale quotations are as follows: Choice creamery prints. 25c to 25c separator prints, 25c are 15c are 15

HORSE MARKET

HORSE MARKET

The feature of the hore market continues to be the demand for lumber horses. Other classes are no. active, although if prices were a little lower for drafters there would be more buying. Horses, 495 to 1657 lbs. each, are the right stamp for the lumber tade, and will command prices ranging form 8:50 to \$357 cm and prices ranging form 8:50 to \$357 cm

LIVE STOCK

The approach of Thanksgiving had lit-tle effect on last week's stock marletz. There was no really fancy stuff on offer, such as one usually sees before a holi-There was no really fancy stuff on offer, such as one usually sees before a holiday, and consequently no fancy prices to report. The run was a little larger than for a few weeks back, with about the same proportion of inferier stuff. Prices all round were just about steady and varied little from those ruling a week ago. There is this consolation, however, that prices for cattle are fully \$1.00 a cwt. higher than at this time a year ago. The trade in export cattle showed no new features. Receipts were not heavy,

and the percentage of good quality was, if anything, a little higher than for a few weeks past. The top price at the Union Stock Yards on Tuesday was \$5:5 Chion Stock Yards on Tuesday was \$0.15 with the bulk of the sales ranging from \$5.25 to 85.60 a cwt. Medium to good exporters sold at \$5 to \$5.25; good to choice export heifers at the same figure; export cows at \$4 to \$425, and export bulls at \$5.50 to \$4 a cwt.

Well finished butchers' cattle are still selling at a premium, there not be enough to go round. Inferior stuff tinues to be plentiful. It is easy to selling at a premium, there not being hands. The market, however, is cloim enough to go round. Inferior stuff continues to be plentiful. It is easy to buy and, hard to sell. On Wednesday and and, hard to sell. On Wednesday and Thursday there is always a bigger run of the continues of the contin

best butchers' stuff for export, but are paying no more than the local buyers will pay. The top price was about \$5.25 but few offering went over \$5 a cwt, the bulk of the sales being made between \$4 nulk of the sales being made between \$4 and \$8. Some choice butteners' cows sold up to \$4.25 but sales above \$4 a. cwt, were few. Fair to good cows sold at \$3 to \$8.25, butchers' bulls at \$2.50 to \$3.25, and canning cows at \$1 to \$1.75 a cwt. Under light receipts and a good demand veal caives continue steady. Prices last week ranged from \$3 to \$6.50 a cwt, with a few choice ones going higher.

There is an unusually good demand for nilch cows. Holders of contracts for milk supply are looking for them and will pay mileh cod round prices for those that will till the bill. Choice mileh cows sell read-ily at \$50 to \$55 each, with some extra ancy ones bringing more money; medium at \$25 to \$45 each, and springers at about the same figure.

The stocker and feeder trade is in full

wing just now; there are not enough eeders of the right stamp coming for-vard to supply the demand. There is elenty of common stuff, which is hard o sell. A number of western cattle conward to to sell. A number of western cattle con-tinue to arrive and sell at prices about the same as Ontaro bred stuff, quality considered. Distillers are buying cattle, and will pay a good premium for the kind that suits then. They want them weighing 100 lbs. and over, with weighing 100 lbs. and over, with some flesh on them. Good pure-bred bulk are in demand for distillery feeding also are about as follows: Heavy are in demand for distillery feeding also Quotations are about as follows: Heavy steers, 100 lbs and over, 84.25 to 84.75; feeders, 900 to 1050 lbs each, 83.75 to 84.25; store cattle, 82.50 to 83.50; stockers, 82.56 to 83.40, and store bulls, 82 to \$3 a cwt. Sheep and lamb receipts ruled heavier

Some sheep and main received than for some time past. Prices, however, keep up well and everything sells readily. Some sheep are being bought for fall and winter feeding. Americans are buying Canadian lambs, which helps to keep up the price. Quotations are: ewes, \$350 to \$5.90; bucks, \$2 to \$2.75, and lambs, \$5 to Hog receipts are increasing with a go

Hog receipts are increasing with a good-by proportion of light unfnished stuff among them. Lower quotitions for bacon and lower prices in the United States, hive had some effect on prices here, which are lower at 87.55 pt.0, at country points, and 87.55 fed and watered on the market here. Early in the week logs were quoted at Montreal at 8878 a cst.

The Trade Bulletin's London cable of October 21st quotes bacon as follows:— 'The market is firm and higher; Cana-dian bacon, 66s to 70s."

MONTREAL HOG MARKET

Montreal, Saturday, October 23. — The Montreal market for live hogs was firmer this week owing to the light supplies from the ountry, and more money was recely paid for the offerings on this market had been supplied to the control of the control

for selected lots weighed off cars. Any increase in the supplies however, will immediately bring about lower prices. Dreesed hogs are firm in sympathy with this week's advance in live hogs, and fresh killed abattoir stock is quoted at from \$12.75 to \$13 a cwt.

EXPORT BUTTER AND CHEESE Montreal, Saturday, October 25. — There was another break in the price of cheese this week, due to the small demand for export, and the continued heavy receipts om the country. The great bulk of the from the country. The great bulk of the offerings in the country sold at 10%c, although one or two of the markets sold for more money, this being the first occasion this season that the factorymen of casion this season that the factorymen of Ontario have been obliged to take less than it cents for their cheese. The low-er prices current here seem to have brought on an increased demand from the order side, and the week is closing with prices firmer all around, although no up-ward movement has been noticed. If this improved demand should continue next week, there is no doubt that we have seen the lowest prices for the season, as with the rapidly diminishing supply of cheese the rapidly diminishing supply of cheese from the country, it will take but a com-paratively small trade to abs-rb all the fresh goods offering. The demand to-wards the end of the week seems to have sometimes that could be picked up at low prices, and of far as could be parentain of but year of the far as could be prices. something that could be piesed up at low prices, and as far as could be ascertained but very few Ontario cheese changed hands. The market, however, is clo in

10c to 10%c, the price varying acc o section and quality of cheese offering.

The make of cheese is well maintained as compared with last year, in spite of the shortage in the make of Quotees, but we must look for a rapid falling off in the quality from now on. From all parts we hear of factories preparing close in a few weeks, and there are many indications of the fact that we are fas approaching the end of the cheese making

The market for butter is strong orices are firmly maintained. Fan Eastern Townships creamery is quoted Eastern Townships creamery is quoted at \$45c to 55c a. h. with ordinary meet at \$245c to 245c a. h. with ordinary meet at \$245c to 245c a. h. with ordinary meet at \$245c to 245c a. h. Underfinest hee \$245c to 245c a. h. Dairy butter is more pleatiful; several car loads of western stock have come in during the past few days. This class of butter is offering at about the a bit obtained and any is quoted about the a bit obtained and any is quoted about the a bit obtained and any is quoted being tarely sufficient for the required period of the past week being tarely sufficient for the required its continue to leave the country, some of it destined for the United States, where a considerable quantity of dairy butter of it destined for the United States, where a considerable quantity of dairy butter has been sold during the past few days, and about 15:0 boxes of creamery were shipped to Great Britain during the week

Apples at \$10 a Piece

Never in the history of fruit grow Never in the history of fruit growing has ten dollars been paid for a
single specimen apple of a standard
variety. Four or five dollars a barten of the specimen apple of a standard
variety in the specimen apple of a standard
variety. Four or five dollars a barten dollars cach the price will be
over \$2.000. This price, which will
be paid right here in Ontario is quite
unusual. In Oregon they sometimes
for Winter Ba ten dollars a box
for receive as high as ten notiner a one for Winter Bananna apples, but even that price only figures out at thirty dollars a barrel. Even the choicest Canadian apples that are exported to Great Britain, and sometimes soid wholesale at three to four dollars a barrel, sell retail sometimes against the search of the first through ag five cents each in the fruit through ag five cents each in the fruit four dollars a barrel, sell retail some-times at five cents each in the fruit shops in London this would make an average of just over ten dollars as being offered for the state of the self-specimen apple of Baldwin, Green-ing, Spy, King or McIntosh, and that five dollars is offered for the second best of the same varieties, or seventy-best of the same varieties, or seventy-the to the same varieties of the second apples is making the tot of the apples is making the tot of the in Ontario very keen over the Exhi-bition.

bitton. This amount of money is being offered by the Ontario Hortleultural Exhibition. Toronto, where the apples will be on exhibition from Nov. 94th to 13th, 1999. Fruit growers who have some extra good specimens of any of these varieties should send their apples for competition. There their apples for competition. There are rules and conditions to govern the competition, which will be furnished by the Secretary, P. W. Hodgetts, Toronto. Last year this Exhibition was visited by persons from distant parts of Canada and the United States, and even England sent her expert apple men to see the large the second of the competition of the second of the competition of the competi est Ho held in Canada.

held in Canada.

In addition to apples there will be one of the finest displays of priming the control of the c

ment of Canada's products.
From present indications this year's Exhibition will in many ways eclips last year's splendid success. The railway companies, recognizing the importance of the Exhibition, have deed to give special rates. Local formation of the English of the companies of the product of the prod

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DAIRY F and equalize, with Box 20, FOR SA farm in to Box AGENTS

Octo

Granites Mends : housewil profits .-WANTEDberland, Hastings special r pecial r Dairy in sions giv Address, Dairy. Pe

London, cheese offe to 111/4 Hyaci Victoriavi 5000 at 151/4 Canton, Canton, heese sold Utica, N. Campbellf cheese offer at 10%c; be Stirling, sold at 10% Madoc, Oc t 10%c. Peterboro, offered: 10
Belleville,
white and
at 10%c; 435

Brockville, Kingston, (842 boxes co boxes chang Winchester white registered on the London, On fered 715 cas Bidding, 101/2 Canton, N. cheese, 15%c; Watertown 4000 at 151/4c

COW TRANS

Johanna R Samuel S. Kasper E's
to B. R. Barr
Kathleen Ne
Sr., to Thor Kathleen N.
Sr., to Thot
Ont.
Lady Arabe
man Bros., (
Lady Johan
to J. W. Rich
Lenna Johar
Nishet, Carma
Lilly Canars
liam Couch. J
Lilly Henger
ton to Edvar
Lilly Watters to E
Ont.

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DAIRY FARM WANTED, to rent; stocked and equipped as a going concern. Any size, with or without option to purchase. Box 20, Farm and Dairy, Peterboro, Ont.

FOR SALE. CHEAP,—Chamnion Jersey bull, Golden King, Three Young Hack-ney Stalliors: Four Drivers: 160 acre farm in County of Peterboro. Apply to Box 112, Stirling, Ont.

CHEESE BOARDS London, Ont., Oct. 16. — 1095 colored cheese offered; no sales. Bidding, 10%c

Watertown, N. Y., Oct. 15.—Cheese sales, 500 at 15% of to 15%. Canton, N. Y., Oct. 18.—400 boxes of cheese sold at 15%. 18.—8ales of cheese. Sold at 15%. 19.—8ales of cheese. The sold at 15% of the sold

Madoc, Oct. 20.—475 boxes of cheese sold t 10%c.

concreg Oberes; Deze Pri S. Begei Boue-schingston, Oc. 21—40 boxes of white and \$2 boxes colorel cheese reg s'ere!: 630 boxes colorel cheese reg s'ere!: 630 boxes changed hat den et ere et el 630 Winchester, Oct. 21—155 col r. of and 265 white registered: 19½c offered but no:e rold on the board. London, Ont., Oct. 23—Pour factories of. London, Ont., Oct. 23—Pour factories of. Bidding, Ottos colored cheese: no rales. Bidding, V., Oct. 23—1400 boxes of cheese, 15½c: last year, 12½c. Watertown, N. Y., Oct. 23—Cheese sa'es. 400 at 15½c to 15½c.

COW TRANSFERS FOR AUGUST, 1909

Johanna Ruth De Kol. H. E. George to Samuel S. Elliott, Tweed, Ont. Kasper Es Laura G. Lorne McCallum to B. R. Barr, Harrietsville, Ont. Kathleen Netherland, James A. Stewart, Sr., to Thomas Hoskins, Campbellford,

Sr., to Thomas Roskins, Campoelinord.
Ont-dry Arabelle, Mary A. Steves to Creelman Bros., Cloverdu, A. Steves to Creelman Bros., Cloverdu, Caledonia. Ont.
Lady Johanna Rue Lase. J. J. Mchride
to J. W. Richardson, Caledonia. Ont.
Sainas Johanna Rue, G. George to John H.
Lenna Johanna, E. D. George to John H.
Lenna Johanna, Rue, H. E. George to R.
Nistet, Carman, Man.
Lilly Canarry, Frank Strobridge to WilLilly Hengervell in. Ont.
Lilly Hengervell in. Ont.
Lilly Hengervell in. Ont.
Willy Steherland De Kol. Wm George
Wills Netherland De Kol. Wm George
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Milly Steherland De Kol. Wm George
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AGENTS make big money selling "Yol-Peek" Granits Cement. Mends holes in Graniteware, Iron, Agate, Tinware, etc. Mends a hole in one minute. Every Agate Greatest seller on the market. Agate Greatest seller on the market. Agate Greatest seller on the profits.—M. Nazle, Westmount. One WANTED—Every postmaster in Northum-berland, Peterboro, Ontario, Victoria, sepsella representation counties, to act as appeals representation of the properties of the page of the properties of the properties of the sense given for clabs of new subscribers, address, Circulation Manager, Farm and July, Tolerboro, Ont.

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Black Watch Chewing Tobacco

Rich and satisfying. The big black plug. Lottie C. De Kol, Ben Hopps to George RcConnell, Trent Bridge, Ont. Lottie De Kol of Lulu, J. M. Steves to I. W. Hollinshead, Ladmer, B. C. Lucy Butterup De Kol, Felix P. Ash-y to Metairie St. Joseph, St. Hyacinthe,

J. W. Hollinshead Laddier R. D. A.
Lucy Butterup De Kol. Felix P. Ach.
by to Metairie St. Joseph. St. Hyacinthe.
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Migrinson. Inkerman, Ont.
Migrinson. Inkerman, Ont.
Millord May Henry Galdu, Jr., to Henry
Ostiga Margaret Burke. B. Hurtubise to
H. Willord M. Hubert Gladu, Jr., to
Millord Margaret Burke. B. Hurtubise to
M. William H. M. Hubert Gladu, Jr.,
Millord Margaret Burke. B. Hurtubise to
H. William H. Burker Gladu, Jr.,
St. Hurtubise to
M. William Henry Ontigury, Marieville, Que.
Low Mercy, Ostigury, Marieville, Que.
Colliver, Letthinere, Que.
Oliver, Hercelle Millord Caldwell to
John W. Purse, Ekron, Que.
Oliver, Henry Ostigury, Marieville, Que.
William De Kol. Stanley Stephenson to
William De Kol.

cellide to J. W. Evellaruson, Calectonian, C

How to Build a Telephone Line

Madoc, Oct. 20.—475 boxes of cheese sold at 19%c.
Peterboro, Oct. 20.—289 boxes of cheese
Peterboro, Oct. 20.—289 boxes of cheese
Peterboro, Oct. 20.—289 boxes of cheese
Peterboro, Oct. 20.—676 cheese
Peterboro, Oct. 20.—506 boxes
Peterboro, Oct. 20.—506 boxes
Peterboro, Oct. 21.—506 boxes
Peterboro, Oct. 20.—506 boxes
Peterboro, Oct. (Continued from page 12) workman on the pole. On curves and workman on the pole. On curves and corners the arrangement of wires with respect to the insulators is different. Here the wire is always on the side of the insulator next the outside of the curve. The rule go by is to place the wire so that the stress will be against the insulator and not against the tie wire.

On curves a guard wire should be

against the tie wire.

On over the line wires to prevent place over the line wires to prevent them from dropping into the road in case on should come loose from an insulator. The guard should be a piece of heavy wire (No. 9). Staple one end of the wire to the end of the cross arm dithen run it over the tops of the insulators and fasten to the other wire of the insulators and fasten to the other wires of the insulators by fully form inches. Any line wire coming loose will be caught by the guard.

guard.

For running from the pole on the For running from the house of a subscriber, an insulated drop wire is best. If a grounded circuit, use a single strand vire, and if a metallic circuit use a twisted part of insulated wires. In sulated wire is better than the bare wire, best with the subscriber of the line wires and prevent the disagreeable humming that is caused by the wind on the line wires. To be continued next week.] (To be continued next week.)

MISCELLANEOUS

FAMWORTH AND BERKSHIRE SWINE.

Hoars and sows for sale. J. W. Todd.

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