



In the LINK-BLADE Device each vertical layer of milk is an independent Separator, so that in the Nos. 0, 1 and 2 machines there are really 44 independent Separators inside the bowl. Into each one of these the milk is fed in the neutral zone at the lower end of the layer, and as it separates the cream follows the convex side of the blade and works upwardly and inwardly towards the cream



wall, while the skim milk follows the hollow side of the blade upward and outward towards the periphery of the bowl.

The, separation in each layer is complete and independent so that each layer is really a separating unit by itself

In other systems composed of either superposed discs or star-shaped partitions placed one inside the other, the separation is not made complete in each division. There is a re-mixing or conflict of cur-rents as the milk passes from one layer into the other which results in a decreased efficiency. These relative efficiencies have been carefully established by us by trying

the different types of devices in the same bowl, at the same speed, and under the same conditions, and the efficiency of the LINK-BLADES has been demonstrated to be at least 30 per cent over the next best form of device.

The Simplex Link-Blade

will come to your farm some day and the sooner you order one the more money you will save.

D. Derbyshire & Company flead Office and Works: BROCKVILLE, ONT. Branches : PETERBOROUGH, ONT.

MONTREAL and OUEBEC WE WANT AGENTS FOR A FEW UNREPRESENTED DISTRICTS



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

Editor, The Dairyman and Farming World:--Percheron's letter in your is-sue of August 19, may or may not be intended as a "red rag" to Clydeedale men, but I think it deserves a reply.

men, but I think it deserves a reply. It is evident that our western friend is not well informed as to the merits of the different draft breeds, and more particularly so in regard to the Cly-desdale, else he would not make such weeping and extravagant statements, which are not substatisted by fatcs. He says that the Percheron is des-tined to become the draft horse in Canada as it has in the United States. 1 fear the western climate is not con-ducive to the development of pro-phets. nh

Heroic efforts have repeatedly been made by American importers and dealers to establish the Percheron breed in Canada, with but very poor aucesse. I might mention the case of calaes who, rest being satisfied with selling from thirty to forty' Clydes-dales annually, thought he would ven-ture into the Percheron field, with the bope of still further swelling his bank account. The realization was not at all in keeping with his anticipation, as it took him fully two years to dis-pose of four and then not for cash. Canadians do not take kindly to round bones, narrow hoof-heads and curby hocks, which are characteristics of the Heroic efforts have repeatedly been hocks, which are characteristics of the Percheron. It would be surprising indeed if the

Percheron. It would be surprising indeed if the Percherons were not more numerous, in the States, than other draft breeds, when we consider the fabulous sums which have been spent by the most latter and enterprising dealers in booming the breed. Besides, they trade and enterprising dealers in booming the breed. Besides, they trade areas hargely rained through the fast that dinhonest practices crept in and anything and everything was con-sidered good enough for that country. This talk about the Percheron being more enduring than the Clyde is all bosh, and does not coincide with the experience of one of Chicago's largest iron founders, who once put in Perch-eron geldings into his trucks, and 18 months afterwards only one was left fit for work. He replaced them with Clydeadales, every one of which lasted ten years. The great Clydeadlag gdd-ing Sensation exhibited at the Chicago Internationa in 1901 had worked stating up on the streets of Liverpool for areas the presents of Liverpool for the states the present of Liverpool for the states the states of Liverpool for the states the states of Liverpool for the stat six years

This variage up which "Percheron" speaks of is surely a alow process. If fear he and I shall have long since passed to our reward ere Canadians become sufficiently awake to substi-tute Percherons for Clydesdales. In closing we may say that our es-perience with Clydesdale dates from the early eighties, and we have yet to find atmed at the best, becoming dis-satisfied with the Clydesdale breed.— B. D., Durham. Co., Ont.

Splendid Crops at Macdonald **College Farm**

College Farm This year some splendid crops have been harvasted at the Maxdonald Agricultural Collega at 85. Anne de Bellevue, Que. While visiting at the farm in August, a representative of The Canadian Dairyman and Farming World was driven through some of the fields by Mr. John Fixter, farm man-ager. There are 600 acress in the farm, of which 387 acres are under Mr. Fixter, who are 600 acress in the farm, of which 387 acres are under Mr. Fixter, the's management, Mr. Fixter, who use of the second second second second the over a year, has already made a wonderful improvement in it. He pur-poses following a four-year rotation, including one year of hoed crops, one year in grain and two years in hay or pasture.

white "My object," said Mr. Fixter, "is here to grow large crops and to increase their the soil fertility. This year we had try is 75 acres in clover. Before clover is head.

September 30, 1908

own, the soil should be thoroughly cultivated. Deep cultivation, either by means of the plough, or the culti-vator, is the best." Mr. Fixter drove us through sever-al acres of as fine clover as we had ever seen. "This field," said Mr. Fix-ter, "was cultivated thoroughly in the ter, "was cultivated thoroughly in the summer, when the roots and corn were on it. The deeper the land can be pioughed, the better is the chance for the crop the following year. Of course, however, it does not do to bring the cold, raw earth to the sur-face."

Good Farms Competition

Good Farms Competition N.J. Surseman, M.J.C. Winnight A source of interest in Maniloha this past year was the good farms com-petition which was conducted under the direction of the Agricultural Col-lege. The competition was keen be-tricis into which the province is div-ided. The competition will be the means of making a wonderful improve-ment in the homes and farms of many of our agriculturists. The competi-ymarked improvement in conditions already this year.

among the farmers. There was a very marked improvement in conditions already this year. Some of the farms visited were of a high order and would be very hard to beat in any other province of the Dominion. These competitions will be carried on from year to year and it be carried on from year to year and it is hoped to bring every farm to a high state of perfection. When such is real-ized, farming will be a pleasure. Such may be the means of keeping many a young man or woman at home on the farm

French Canadian Cattle

French Canadian Cattle The French Canadian cow is new sail to be the most profitable cow in Canada, and the Canadian minister of agriculture predicts that she will soon be known as the world's greatest but-ter producing machine. *Rural Life* admits that there are many things in her favor. She possesses most of the good points of the Jersey and in addi-tion and is better adapted to the con-tion and is better adapted to the con-any of the older breads. The French Canadian cattle are un-fortunate, however, in being owned by breeders who are too timid to ad-vertise their good qualities in the agri-cultural papers.

cultural papers.

Some Form of Power Needed D. J. McClure, Peel County, Ont.

A farmer who has a slie should have some kind of power for cutting his corn. Ten years ago I purchased a tread power for \$45, which to-day is in as good condition as when I pur-chased it. By means of this power I can cut enough corn in 15 minutes to last my cows for two days.

has my cove for two day. Initiality to the first order of the second sec

On the best soil in Holland the 20 acre farm will carry 20 cows, three to four horses and 60 sheep, with the usual flocks of poulty. This means pasturage and soiling for the animals in the summer, and grains, roots, hay and roughage in the winter. The cows are the gigantic "black and . whites," known there as Friesian and here as Holstein-Friesian cows, and their average production for the coun-try is over 9,000 lbs. of fine milk per

Issued Each Week

VOL. XXVII

Only \$1.00 a Year

AGRICULTURE, THI. KEYSTONE OF CANADIAN PROSPERIT FOR WEEK ENDING SEPTEMBER 30, 1908

EThe CANADIAN DAIRYMAN

No. 37

CHOOSING A FARM POWER

John Evans, Professor of Farm Mechanics, O.A.C., Guelph

If installing a Gasoline Engine get one of sufficient power to properly perform the work to be done. In an economical engine a good mixing, a good compression and a good sparker + are absolutely essential

In the Jaily round and common task of the farmer much of the hard routine work now done by manual labour could be as efficiently and economically performed by some mechanical contrivance as by sheer brute force of the hired man. Now that even high price labour is scarce and extremely difficult to secure, every thoughtful farmer is contemplating how best to meet the situation so as to release somewhat the tension and strain of the stremuous life of the present day on the farm. Naturally his thoughts turn in the direction of installing some mechanical equipment to perform the heavy hum-drum work and

the question that troubles. him sorely is what is the best "rig" to install to advantage, not only at the pump or feed grinder but also at the wash-tub, churn and separator. To the average farmer who is forced by circumstances to contemplate something seriously along this line and who has had comparatively little or no opportunity of seeing the different kinds of motive power and the methods generally adopted to apply them to all sorts of farm operations, the problem of selecting the right mechanical outfit which will meet all his requirements most satisfactorily is a vital and a perplexing one.

There are two types of engines on the market, the two-stroke cycle and

the four-stroke cycle. The operations taking place in the cylinder to produce continuous power are similar in principle and character in each type and effect the same results but the method of control is different. In a two-cycle engine there is a impulse of explosion for every second stroke of the piston while the four-cycle has four single strokes of the piston for every explosion. It is evident that given the same size, weight and strength of engine parts, the engine operating with the greatest proportion of working strokes will develope the most power so that the twocycle engine has a decided advantage on this score ,but owing to its later development, its various mechanical difficulties yet to be overcome, it has not met with success like the four-cycle principle which better meets the requirements of power users, and manufacturers do not care to leave a ready market to perfect the two-cycle problem

CONSIDER THE HOBSE POWER OF AN ENGINE One of the weighty points for consideration is the horse power of the engine most suitable for farm work, but different localities are engaged in widely different kinds of farming. It is therefore impossible to orbitrarily say that a certain horse power will adequately meet all demands, say of a hundred-acre farm. The work to be done by the engine of course depends entirely upon the size and capacity of the machines to be driven and since in the diversity of farming practised a very wide range of machinery exists, it is necesary in order to help the farming community at

Our Efforts Appreciated Comber, Ont., Sept. 18th, 1908 Editor, She Canadian Dairyman and Fasming World, Dear Sir, I am pleased to read in the daily press that the Postmaster-General is to give Rural Free Delivery a fair trial. I think that the very clever series of articles that appeared in She Canadian Dairyman and Farming World on Free Rural Delivery were largely instrumental in bringing about this state of affairs, so beneficial to our farmer friends. (Signed) Charles Clark, Publisher, "Cumber Herald"

> large to have some basis on which to determine to one's own satisfaction what horse power best to buy. It is by no means economy to have a rated horse power very much higher than is actually needed to perform the work in hand. Of course there is no engine built that will last as long if it is run to the limit of its capacity all the time. There should be a reasonable allowance. A gasoline engine reaches its maximum horse power when the governor is not acting. To determine the horse-power required a fair basis would be that the horse-power of the motor should be equal to that required by the largest machine driven, plus 25 to 50 per cent. of the power necessary to drive the other machines-25 per cent. when the machines need not be driven at the same time and 50 per cent. when several machines are to be driven simultaneously with the largest one. This rule can be successfully applied to average farm conditions.

To drive the various small farm machines such as a cream separator with a capacity of from 500 to 700 pounds of milk per hour requires 1-5 horsepower. A pump lifting about 20 gallons of water per minute from a well 50 feet deep would need about 1-2 horse power based on a pump efficiency of 50 per cent. Churns, washing machines, fanning mills, grindstones, each requires about 1-10 horse power to drive them under load. A bonecutter requires about 1-4 horse power if not crowded. A hand drill, depending upon size of the holes drilled and the speed, would need from 1-10 to 1-3 horse power. These machines include practically all of the smaller machines in use on one or the other of the various kinds of farms. The total power required for all of them amounts to 1% horse power.

The feed grinder will require from 1 to 1½ horsepower, depending of course upon the capacity, speed of the mill, condition and kind of grain, and the fineness desired.

A saw rig could be operated by a 2 horse power, although with a 3 horse power a great deal more work can be accomplished in a given time. Assuming then that a farmer wishes to purchase an engine to run all these machines we find that the horse power of the motor, according to our formula, should be as follows:

The largest maciine, the saw, requires 2 horse power, the grinder and the others $1/_5$ horse power and small machines $1/_5$ horse power. Total—3 horse power, 20 per cent. of which is $\frac{1}{2}$ horse power plus $\frac{1}{2}$ horse power equals $2/_4$ horse power equals $2/_4$ horse power equals $3/_5$ horse power engine should be rated. This 3 horse power engine

would develop sufficient energy to drive the saw at limited capacity and many of the smaller machines simultaneously. Many farmers find that a 4 horse power engine is an excellent size, for besides operating all the small machines enumerated it will in addition drive a feed mill with a capacity of about 20 bushels per hour. Usually this takes about 20 housels per hour. Usually this

THE PLACE FOR THE LARGE ENGINES The large engine, however, has its place where heavy class of work like threshing, filling siles, etc., has to be done. But the question arises has the average farmer enough of this work to justify him in investing in a large engine or would it be cheaper to hire some one making a specialty of that class of work to do it. Should the work warrant a large engine, have it large enough to handle the work successfully, indeed it should be so large that it would be good economy to have two-a small one which could be moved from place to place for the light work and the larger one

Practically all the standard makes of the fourcycle engines are designed to take into the cylinder at each suction stroke the largest possible quantity of the explosive mixture that can be taken in by suction. Then this charge of fuel, as it is often called, is subjected to a compression somewhere between 40 and 90 pounds per square inch by the returning piston. On exploding this compressed charge gives forth a working force of nearly four times as great as the pressure of the gas at the point of exploding. Hence two engines of like bore and stroke running at the same speed would each consume very much the same quantity of explosive fuel if working under full load. But an engine having only, say 40 pounds compression pressure develops only half as much power as one under 80 pounds, so that the former would be wasting half its fuel or in other words would require twice as much fuel per horse power as the latter engine.

DIFFERENCE IN ECONOMY OF FUEL

It is surprising what a difference there is in engines in this respect and the economy in fuel should be looked into carefully. Tests demonstrate that low compression engines are "gasoline wasters." High compression engines about 85 pounds to the square inch give the best results. The smaller the horse power of the engine the more it will use relatively, and the best engine on the market will not get much, if any, under a gallou a horse power for 10 hours run under full load, despite the claims of manufacturers.

If there is a difference in engines in this respect there is of course a cause for it, and if so, what is it? To an economical engine a good compression, a good mixing and a good sparker, properly timed are absolutely essential. The first we have discussed. We shall now briefly deal with the remaining two. The nearer the mixture of air and gasoline approaches to a perfect gas, the higher the efficiency of the engine. It is generally considered that a proper mixture consists of one part gasoline to seven parts of air. Choose an engine with the mixer located near the head and requiring no regulation of the air. An engine drawing its charge through a long pipe is a hard starter, especially in cold weather. A small glass reservoir on the mixer saves much annovance as one is able to see if the pump is acting, the tank emply or water in the gasoline. Next comes the method of ignition, the hot tube and the electric spark. The former is all but obsolete, the latter is divided into two kinds, jump and touch spark. Generally speaking jump spark has been adopted for high speed engines, the touch for slower speed power purpose engines. The jump spark has the advantage of no mechanical moving parts and is subjected to a little wider variation of the ignition point and is usually run with dry cell batteries. The touch spark is mechanically operated. The spark is produced by snapping a pair of contact points. As these points are separated after completing electric circuit there is produced a bright spark.

TIMING THE SPARK

The power of the ignition greatly influences the consumption of fuel which may be reduced from 25 to 30 per cent. in a given horse power by using the proper quality of apparatus. There should be some simple method of timing the spark. This is a very essential feature as the explosion should take place just before the piston reaches the farthest point back. The greater the speed of an engine, the more advance on the spark. This should be regulated so as to throw it past the centre for starting.

Avoid high speed engines for power purposes; the race horse is alright on the track but cuts a poor figure at the plow.

Photographs and articles are always welcomed for publication in these columns.

Possibilities of Dairying in Northern Alberta

G. H. Hutton, B.S.A., Supt. Northern Alberta Experimental Farm

To deal with the crops which can be successfully raised in Alberta, in any detail, would re-quire a great deal of time. The crops which the soil of Alberta can produce are such that any dairyman using them would be justified in hoping for and expecting the best possible returns from his investment.

Travel where you will you can see the natural grasses growing in abundance, and not only natural grasses grow wild but various legumes such as pea vine and vetch, indicating under conditions of the prairie that this soil will produce these fodders in such varieties as to make a balanced ration such as a good dairy cow appreciates.

What has been attempted by man in the way of growing cereals and legumes has been so far uniformly successful, especially when he has paid attention to the demand of the legume for bacteria to fix for it free nitrogen or the air about its roots.



Where Hog Raising Pays.

where rolog Maising Pays. Farmers who use raps and alfalfs as supplemen-tary feed for hogs, are rarely heard to say that ho raising does not pay. Mr. H. R. Nixon, of Brant Co pasture run of rape, as well as one of alfalfs, for h hogs. He claims that he can put finished bacon on the market at a cost of less than four cents a poum live weight. Photo by our special representative. pound

Cereal crops, particularly oats and barley, have always been remarkably successful in this Northern part of the Province. These two grains themselves would supply the dairyman with the grain foods necessary for the successful operation of his dairy. Even last year when the unusual climatic conditions cut the maturing season for the oats and barley rather short, there were in this Northern part of the Province many farmers who had oats weighing 40 to 45 lbs. to the bushel and barley germinated as high as 84 per cent. and weighing standard and over. Of course, we do not deny that where grain was sown late it was caught with the frost and much light grain, and grain lacking in vitality was the result, but my point is that even under the most unusual circumstances prevailing through the country in 1907, there was abundant grain for feeding dairy stock and of a quality calculated to produce the best results. On the Experimental Farm barley yielded as high as 72 bushels an acre in 1907, and showed a germination of 84 per cent. Oats gave 110 bushels an acre, but were not as high in vitality. These facts should prove the possibilitie of Alberta as a dairy country from the grain growing standpoint. That the necessary cereals can be produced is an assured fact.

The alfalfa and red clover sown on the Experimental Farm in June of last year wintered well.

The first cutting of alfalfa was made in July. Where it was inoculated the yield was 4,160 lbs. while where it was not innoculated it yielded only 1,960 The second cutting was ready about Sept. 1st, and on the inoculated area it gave a yield approximately equal to that of the first cutting. Red clover is now in bloom again, having yielded at the first cutting without inoculation one ton to the acre. Everywhere over the field large rank bunches of clover could be seen and here the life giving nodules are found, showing that on the old land where manure has been applied the clover will accomplish its own salvation in time. Having then such a happy combination of jeguminous crops and large yields of cereals per acre, the possibilities of this important branch of agriculture in this Province seem almost unlimited.

The climate is not as severe as many people imagine, and I believe that the constitution no essary for a productive diary animal will stand the winter without difficulty. There are already in the Province a number of dairy cattle-Jerseys, Holsteins, and Ayrshires. During the severe winter of 1906 and 1907, representatives of these breeds of cattle were taken from point to point through the Province in connection with the Stock Judging Schools put on by the Provincial Department of Agriculture. These animals without exception came through in fine condition, and their milk yields, considering the fact that they were continually changed as to stabling and surroundings, were large. Many cattle winter outside, having the run of a straw stack and access to water, and come through the winters in fine condition, without other food or s' elter. The rumors sometimes circulated outside this Province that dairy cattle are not vigorous enough to stand the climate are not well founded

BUTTER THE PRINCIPAL DAIRY PRODUCT.

The usual manner in which dairy produce is marketed is in the form of butter. It is handled largely by the Provincial Department of Agriculture with Mr. Marker as Dairy Commissioner. Butter is selling at prices satisfactory alike to patrons and consumers. Private butter and cheese factories are springing up in some sections of the Province. One that came to my notice, paid during this season 20c a lb. for butter fat, clear of manufacturing and hauling. These prices I believe, should stimulate farmers to produce quantities of cream, since the skim-milk fed on the farm in conjunction with the abundant native and cultivated grasses and fodders should prove a most valuable by-product. Dairymen in a butter-making district should be enabled to put large quantities of beef on the market annually.

CHEESE INDUSTRY UNDEVELOPED

The cheese feature of the industry has not as yet been very largely developed, but there is no reason why it should not be a prominent feature in the dairy business in this country since at present quite a large quantity of cheese is imported while the conditions here should warrant its manufacture within the Province. We have the best of climatic conditions, cool nights, fresh air. and there is an abundance of pure water everywhere. Aside from the manufacture of butter and cheese, there is a grand opening in many of the towns of the Province for dairymen, who will supply good clean rich milk to those towns. In some instances it is almost impossible to secure milk at any price, while at the same time near these towns there is abundant land available for pasturage at moderate prices. To anyone who has seen the rapid growth of towns in the West the dairy business of these towns will commend itself as a good business proposition. Another feature which should be of interest to some dairymen of the East is the opening in this Province for the establishing of a number of first class pure bred dairy herds. There are a few-we need more.

It is a regrettable fact that there are a large number of cows being milked in this Province, which are giving their owners no profit at all, and

there is abundant room for some one to carry still ¹ further the campaign of education as to the value of pure bred sizes in building up dairy hercis. As soon as this education is completed there will be giganize demain if or this class of stock, and it will be the man who is on the ground and has the stock for sale who will reap the reward. Altogether the possibilities of dairying in Alberta, while not penhaps as alluring as mighty waving

There are in this province some excellent specimens of horse flesh, especially amongst heavy breeds which are most in demand. Soveral large importers have at the head of their stable, stalllons which stood well up at the leading shows in Great Britain, United States, and at the larger Canadian shows. The breaking of the prairie necessitates power; and there is a great demand ior Agricultural horses to supply it in spite of



A Survivor of Olden Times

Those who in years gone by wave shiled upon to take a team to turniah power for their sneightory' threshing, will be interested to lears that the state of the state of the state of the second of the second of the second state of the second state

fields of wheat, are in the far future, likely to be as stable, as sure, and for an average of a number of years, as remunerative.

Live Stock Industry in Saskatchewan

John Stirling, Southam, Saskatchewan

To non-residents of the country, Saskatchewan is known principally on account of its reputation as the home of a large and rapidly growing part of the world's best hard wheat, which, important though it may be, is not the only large agricultural industry in the province.

Stock raising, which until the comparatively recent rush to the west was its main support, is important. While "Wheat is King" the province produces many horses and considerable beef, mutton, pork, and small but growing quantities of cheese, butter and eggs. The low initial cost required to start in it, the quick return and the high yields per acre of grain of good quality has made wheat-growing the staple industry and attracted to it the attention that would otherwise have gone to the mixed farming and stock raising, which, however, has still a large number of adherents. This is especially the case in the South Western portion of the province where a district of about 25,000 square miles is given over almost entirely to ranching purposes just as the remainder of the settled part of the province is almost entirely under the sway of King Wheat. Generally speaking this is true. There are, however, some districts especially adapted to live stock, such as the large area of partially wooded country north of the Yorkton branch of the C. P. R. and of the main line of the C. N. R. This comprises a strip of country varying in width from 75 to 150 miles and runs in a north westerly direction, almost all the way to the Alberta boundary.

In addition to this stock raising is practised to a considerable extent in some of the wooded sections in the central portion of the province.

A recent despatch from London, England, states that Great Britain 'n 1007 exported to Canada 61,789 horses, the largest export ever known, though the total value, \$6,200,000 was exceeded in 1906. If the aubsequent history of these animals were traced it would be found that a large proportion of them, especially the heavy breeds, eventually found their way into western Canada and a large number of these into Sastatchewan. what is being done by steam and gasoline engines.

An idea of the magnitude and rapid growth of the horse industry may be gained from the following figures: In 1963, under the old territorial government, a stallion enrolment act was passed, compelling the entering at the Department of all stallions whether pure-bred or grade. The act remains in force. In 1964 there were 363 purebreds and 246 grades, in 1966, 85 pure-breds and 71 grades; in 1966, 140 pure-breds and 112 grades. and in 1967, 158 pure-breds and 124 grades. Possessing a climate suitable for the purpose, plenty of good pasturage, and having in operation a sysraining that lends itelf readily to horse raising the prospects of that industry are of the brightest.

The cattle industry of Saskatchewan is also important. In 1906 there were shipped east 15,812 head and during, the year following 20,271 head. Low prices have had a tendency to check the ex-

flocks ranging from a few hundred to many thousand run the open prairie, engages the attention of quite a few stockmen. The industry has grown ravidly since 1901, when there were 73,097 sheep in the pryvince until 1906, when this number had increased to 121,250. About \$100,000 worth of sheep and lambs are annually shipped from Maple Creek and adjacent stations. In the neighbourhood of 500,000 pounds of wood starts on its journey from the same points each year, and a this according to 1807 prices was worth 15½ cents a pound, it represents quite a creditable sum in dollars.

Hog raising has kept pace fairly well with the increase in population increasing from 27.763 in 1901, to 123,916 in 1906. The system of farming here practised is admirably satical to the hog which fluctures on the grain screenings, but is not yet grown in sufficient numbers to supply the local demand.

The same condition of affairs is true of dairying and poultry raising. Large quantities of butter and eggs are imported each year and there is an excellent opportunity for building up of remunerative businesses to supply these wants.

Pointers on Plowing

In low, flat land that has not been underdrained it is best to make the lands angrow, so that the furrows may be used for drainage purposes. Where this is necessary it is best to make a high back furrow, this will give the land the proper crowning slope which will drain off the water quickly.

In ploying under manure, if spring grain is to be sown, do not turn it under too deeply, especially does this apply if fall wheat is to be sown on the same field, as both crops will then be materially benefitted by the manure. The second plowing should be about two inches deeper than the first which will again tur, the manure under but nearer to the surface. In this manner there will be very little loss by drainage into the subsoil.

To keep the bees in good condition throughout the cold weather, when they cannnot fly frequently, the great and important requirement is dryness, both inside and outside the hive. A dry atmosphere, with a slow circulation of air about or through the cluster of bees in the hive, a fairly even température, and absolute freedom from outside disturbance, will generally carry the bees



Pounding Out the Grain in the Modern Way,

This outifs was threshing peas in the field when visited by our special representative, who took the photograph. Landling peas in this manner saves much labor. The practice of out-door threshing is very popular with the men, but when carried is extreme, it seriously inconveniences one's neighbors, who have to leave their work to help with the threshing. The outfit is owned by Mr. Robert Miller, of Lang, who may be seen standing in front of the argins.

clusive production of this class of farm stock, but with their recent rise the eagerness with which western styers were taken up from experimental shipmer's to Chicago yards and the agitation principally in Alberta for the development of a European chilled meat-trade, has to a considerable extent revived interest in this industry.

Sheep raising, which is largely confined to the south western part of the province where large through the winter in a condition ready to build up strong and vigorous colonies in time for the clover bloom the following year.

"Don't keep a hired man around the place two minutes after he begins abusing your cows. If he don't know enough to treat them kindly and gently, then get rid of him."-Mrs. David Taylor, Peterboro Co., Ont.

5



The SUCCESS MANURE SPREADER OLDEST



NICEST WORKING BEST WORK LIGHTEST DRAFT MOST DURABLE

"Success" has the largest ro d strongest drive-chain of a or made. It is the only mach and stronger ader made. Boater free with Beater freeing-device and m other ...ints covered by strong pate Our catalogue tells all about it and g much waluable information farmers. Write for it. MANUFACTURED BY

PARIS, ONTARIO.

"Bisse he PULVERIZES THE

that the plates

WESTERN BRANCH: WINNIPEG, MAN.

of the "Bissell" harrow are so shaped that they cut further und - the soil; turn it over better; pulverize the field as you would never believe possible unless seen with

your own eyes? The harder the soil the greater the "Bissell " triumphs over all others.

The "Bissell" is also most unlikely to break or get out of order because so simply constructed, so strong and durable, all parts consisting almost entirely of steel, with very little iron and only the pole or seat block of wood.

Yes, indeed, the "Bissell" Dise Harrow is altogether superior. Our **free booklet** explains it in detail. Write for it now to Dept R or ask your local dealer.

T. E. BISSELL COMPANY, Ltd., ELORA, ONT. It is desirable to mention the name of this publication when writing to advertise The Ottawa Exhibition

The Central Canada Exhibition, he!d at Ottawa last week, was the most successful financially in the his-tory of the association. While some of the agricultural features were weak-then would then were on the sheels of the agricultural features were weak-er than usual they were, on the whole, above the average. Ottawa, being in a dairy center, the dairy exhibits were one of the strongest features of the show. There were the usual fool-ish, costly and dangerous grand stand attractions such as two balloon ascenions daily, a high dive and a loop the

gians. Among the Clydesdales, the chief winners were Smith and Richardson, of Columbus: Robt, Ness, Howick, Que., and W. Allen. Among the high steppers and carriage classes. Mr. Pepper, of Toronto, was the largest winner. Small exhibitors captured a large share of the prizes.

The exhibit of Shorthorns was small The exhibit of Shorthorns was small although some splendid stock was shown. Senator Edwards, of Rock-land, Ont., and Senator Drummond, of Quebec captured almost all the prizes. The first prize went to Sen-ator Drummond; aged bull, Senator Edwards; aged cow, lat and 3rd, Drummond; 2nd, Edwards. One-year-old bull, lat Edwards, 2nd, Wm. A. Wallace. Karo, Ont. One-year-did heifer, ist Edwards, 2nd Drummond, 3rd Wallace.

3rd Wallace. James Bowman, of Quelph, showed some splendid Polled Angus and cap-tured most of the awards in that section.

THE DAIRY CLASSES

The greatest feature of the exhibit-ition was the splendid display of dairy cattle especially Arrshires. Jerseya, also, were out in good numbers but Holsteins, as at Toronto, were light, Dairy cattle are always a very strong Dairy cattle are always a very strong Dairy cattle are always a very strong Dairy cattle are always a very this year was no exception. French Canadian cattle and Guern-seya were also shown. seys were also shown.

AYRSHIRES

Area reases of the second seco

September 30, 1908

other good one, bred at Ste. Annes. Alex Hume, 5th. Let although the state of the state of the state are at torondo, owned by P. D. Mo-Arthur, was defeated by Logan's champion at Sherbrooke in very close competition. The winning bull was the winner in his class at the Calgary. Regina and Winnipe fairs this year in R. Ness' herd. These were perhaps one of the best pair of bulls brought out in some time. Third went to Hunter's Bargenoch Durwand Lily, and 4th to Ness' Bargenoch Gay Cavalier, these two being by the fa-mous Durward Lily in Scotland. A. Hume, of Menie, took 5th with an-other good ons. Oneycarcolds were the smallest

Hume, of a dome, note but with any other good one, when the smallest Ones, First went to Neas on Motion Main's Queechy, a very promising youngster, which will likely be heard of in many future shows. Second to Hunter, ard to Ness. Bull calves under one year brought out as usual a large class. Hume com-ing first will, a very good quality calf, although smaller than some of the others. Ness, 2nd; Owens, 3rd, and Hunter, 4th. Calves of this year were also one of the class where Hume was very strong taking lat and 2nd. A C. Clark was 3rd. Owens 4th, and Hunter 5th.

Great interest centered in the aged Great interest centered in the agent cow class, ten splendid animals facing the judge. They presented a striking appearance and were much admired. The first four animals were so close it the judge. They presented a striking appearance and were much admired. The first four animals were so close it took the judge considerable time to reach a decision. Hunter's grand, big 2nd took first. Sho we abilitie to de-splendid dairy cow, her magnificent harrel, straight top lines and evenly owhneed udder pulling her through. Second went to Ness Denty 9th of Auchenbrain. This cow was nearly perfection as regards formation and type, but her udder was hardly as well balanced as the winner. Hunter & Sons won 3rd with an exceptionally fine animal. Fourth, 6th and 6th went to Ness for three superior and very useful dairy cows.

to Ness for three superior and very useful dairy cows. The three-year-olds were another strong class in which was the cham-pion "emale at Sherbrooke, owged by Logan, but she had to be contented with being placed second to Ness" Blonde, a wonderfully sweet, even cow carrying a magnificent udder. Third carrying a magnificent udder. Inited went to Hume and thit to Hunter, and 5th to Hume. Two-year-olds,--Gor-don was lat with Southwick Meg, a beautiful, even heifer with a good ud-der and extra good and even teats. She was the strongest competitor that She was the strongest competitor that Hunter's Cracle had for female cham-pion. Hume was second with Clerk-land Kate, the winner of first in here class at Toronto and a heifer that will be seen again. Hume captured the 3rd also, with Ocean Girl. Ness 4th, Hunter 6th and 6th. Canadian bred cows 3 years old and cover - Hume was tak with Dedda of

over.-Hume was 1st with Pride of Hume Farm; McArthur 2nd; Hume 3rd; Hunter 4th, and Senator Owens Hume

Shi, and using two of her progeny.—Ness List Hume 2nd, and Ovens 3rd. Bull and Hume 2nd, and Ovens 3rd. Bull and Hume 2nd, and Ovens 3rd. Sol and Hume 2nd, and Ovens 3rd. Which should have more prominence, at our shows as they not only show the abilities of the breeders, but also the prepotency of the different sires and dams. They tend to help the breeders of good stock, who have not the means to scour the country for animals for exhibition purposes. Heif-er under 1 gear.—Ist, Humef 2nd, 3rd, 4th and 5th, Ness, 6th, Hume, Heifer under 6 months.—Ist Hume; 2nd, Clarke; 3rd, Hunter; 4th, Owen. (To be continued)

(To be continued)

"We like The Canadian Dairyman and Farming World very much and would not do without it now."--Mrs. M. W. Linton, Northumberland Co.,



New Brunswick Exhibition

The Provincial Exhibition at St The Provincial Exhit And at St. John, N. B., was i.J.d under the most favorable auspices and the finest of weather. In every respect it was larger and better than two years ago. In live stock, the swine exhibit was smaller. Horses were out in larger

smaller. Horses were out in larger numbers and of a higher class, parti-cularly the roadsters, coach and driv-ing classes. Dr. Stanich, Walker-ton, Ont, judged light horses. In Ciydesales. Stonycrott Stock Farm, 8t Anne or Bellevue, and W. W. Black, Amberst, N. S., were the principal exhibitors. Their stock was of high quality. James I. Davidson, Balaam, Ont., judged Ciydesdale and beet brevas of cattle.

CATTE

CATTY E Shorthorns were up to the mark in quality, but fewer in numbers C. A. Archibald, Truro, and R. H. Snowball, Chatham, N. B., were the chief exhib-tions, and divided the prizes, also J. F. Payno, Prederieton had the 2nd prize aged bull. In Herefords, W. W., Black, Amherst, was the only exhib-tor. His here has saw it two years ago, and was out in fine trim.

DAIRY CATTLE

Ayrshires far outnumbered the other breeds, and in quality equal to cour western shows. Divisions had to be made on fine points, and in many of the classes, where 10 to 14 animals were competing, many good ones had to leave the ring unplaced. Measra: McIntyre Bros., M. H. Parlee, S. J. Goodliffe, Sussex: Hampton Stock Farrett, Crouchville, N. S.; C. A. Archinald, Truro, and Stonycott Stock Farm, St. Anne de Bellevus, Que, were the exhibitors the aged buils, Parlee won 1st with heast and with builts with built and builts, Parlee won 1st with all and day readers. The standard of the conduction of the standard of the standard condition of the standard of the standard partet, Crouchville, N. S.; C. A. Archinald, Truro, and Stonycrott Que, were the exhibitors the aged buils, Parlee won 1st with heast and with builts built has aged and with with McMarleering of the Standard Hampton, 3cd with Caslegien many Creation, the weat of the standard distributes. Hampton, 3cd with Caslegien many for the standard distributes and the builts of the standard distributes the standard the builts and the standard distributes the standard distributes the Balangton, 3cd with Caslegien many Creations the standard distributes th Ayrshires far outnumbered the other

<text><text><text><text><text><text>

and Parlee went in their order with close co.npetition. If the the second secon in fact, was an easy winner for the diploma; 2nd to Creighton's beautiful White Heather; 3nd to Stonycroft's Barcheskie Marchioness; 4th to Par-Barcheskie Marchioness; 4th to Par-lee. In the dry three-year-old class, Hampton won lat with Aggie, a cow of ins type, 2nd to McIntyrs; 3rd to Go-dliffe. Btonycroff won lat in two-year-old cow with Barchesite Emily, year-old cow with Barchesite Emily, and the second second second second with an two-year-old holder, lat wreat to a choice heifer of a Archibiald's, Gurts of B. V., 2nd to Parlee, 3rd to McLayre. McLatyre

Nuclei on B. V., 2004 to Parkee, and to MeLavyne. MeLavyne. Sond Archibald. In junior ycentling, Soid Archibald. In junior ycentling, Barrelt again won with a heifer of fine qualities and type, Pearl of Silver Falls, 2nd to Stonycroft, 3nd to Parlee. Senior call.-list, Stonycroft; 2nd, Hampton; 3rd, Parlee. In junior c-lf, -lat, Stonycroft; 3nd Aprilee. Junior herd,-list, Archibald; 2nd, Stonycroft; 3nd, McIntyre. Eull and Soi degt-Stonycroft with Monkland Victor. Cow and 3 of progeny-MeIntyre Bros. with Emma of S. B. Best bull owned in N. B.,-lat, McIntyre; Parle. Best female,-lat and 2nd, MeIntyre.

S. Creighton, Josslyn &	Y Y	oung, Sil-
ver Falls, W. McMonagle	an	IR. Rob-
inson, Sussex, and H.	S.	Pipes &
Son, Amherst, contested	for	the hon-
ors. The Jerseys claimed	\$15A	my choice
animals, notably, Creation	the	a aged
bull, Brampton Chansel		h got
1st placing,-somewhat		body
but of fine quality		gle's
Foxy, 2nd; Pipe's form		heaten
Blue Blood of Dentonia.		Robert-
son's imported Golden		

The females were as choice a lot as the bulls. While many of them were not of the most fashionable class, yet not of the most fashionable class, yet they were of good, strong dainy type. In aged cows, Robinson won hat and diploma with a sweet lealand type cow, somewhat undersized but carrying a model vessel; Hood Farm Bonnic, ynd; Josslyn & Young's Dame Norton 3rd, a large cow but not quite as good type or quality, and Mollie of Brook-lands; 4th to hi. Monaget. In the dry class, Pipes won 1st with Brampton Monarch Lena, with Josslyn & Young's Pansy of Rosebank a.close second. They also tok's ati with Jo-nie Norton. In three-year-old cows Josslyn & Young won 1st and 2nd Young's Pansy of Rosebank a close second. They also tock sin with Jen-nie Norton. In three-year-old cows Josalyn & Young won 1st and 2nd with Queen of Rosebank and Pedro's Juty, MéMonagie 3rd with Oran of Pipes won 1st and 2nd with Iramp-ton Monarch. Ora and Brilliantins; Robinson's Figzies 36th of Hood Farm, 3rd. Josslyn & Young won 1st and 2nd in two-year-old cow. Robin-son won 1st in two-year-old heifer, In the heifer and calf classes the prizes were taken by Pipes, Josslyn & Aged herds--list, Josslyn & Young; and, Pipes; Joid Robinson. Young Hord, Pipes; Joid Robinson. Toung herds,--list, Pipes; 2nd McMonagle; Jrd, Robinson. Built and 5 d get--Josslyn & Yourg; (diploma). Cow and 3 of progeny--Josslyn & Young; (diploma). Best built in New Bruns-wick,--list, Doslyn & Young; 2nd, Brunswick,--list Mentale in New Brunswick,--list Mentale in New

Brunswick,-Ist. Robinson; 2nd, Joss lyn & Young.

GUERNSEYS

GUERNBETS Guernasys were shown by Walter McMonagle, Sussex, and Roper Bros., Charlotteewn, P. E. I. Mr. Corning had entered but sent his herd on to Chatham exhibition. The quality of this breed has impoved very mater-ially since four years ago. The prizes were well shared by each exhibitor, therefore we refrain from enumerating. "I's Nonput" and all sele. Here-rigs Nonput and all sele. Here-rigs Nonput and sele between and keeping fresh despite his years. He is proving a grand steek getter. Roper's Golden Opinion is a fine type of the breed and is mating well with Roper's fendles. Their young bull (imported in dam) from the sweep-sides cow gives promus of making stakes cow gives promise of making a fine bull.

In aged cows, Roper wor, 1st, also diploma, with imported Ross of the Villet, a choice female of fine quality and type, with splendid vessel and tests. McMonagle's Queen Orid is another good cow, as is also Roper's Dolly of the Villet (imp). In the dry class, Roper's imported Dolly of the (Continued on page 11).



CARDS under this head inserted at the rate of \$6.00 a line a year. No card conted under two B

CATTLE



salk. E-3-4-97 S. SNOWDEN, Bowmanville, Ork. Box 39, breder of large English Berkshiras, B. J. A. GOVENLOCK, Forest, Ont. Here Rocks, Light Brahmas, W. and B. Lage borrs, Romen Ducks, W. Holland Tur-keys. School and London, 1997-1990. Biok of all ages for sals. 55-14-09

A. P. POLLARD, Shadeland Stock Farm, Can ton, Ont., breeder of Shorthorns and Berk shire Swine. Young stock always for sale Rural phone. 0-10-1

BERTRAM HOSKIN (Mt. Pleasant Farm), The Gully, Ont., Breeder of Holstein Cattle, Tam-worth Swine. High-class young stock for sale. Long distance phone. 0-11-1

JAS. ROBERTSON & SONS. Willow Bank Farm. Milton. Ont., Breeders of Shorthorn Cattle, Dorset Sheep and Berkshire Swine. 0-10-15

L. O. CLIFFORD, "The Maples," O Ont. Breeder of Herefords. Bto sale. Long distance phone.

It is desirable to mention the name of this

Fruit Crop Conditions The spole crop of Ontario has de-creased considerably during the past month on account of the extreme drought that prevailed. Winter fruit is maturing rapidly rand will be of lage size and clean. It is probable that the crop in Nova Scotia will be larger than predicted and the quality will be good. A large errop is expect-ed also in British Columbia. A large from crop correspondents of The Can-dian Dairyman and Farming World. The following are typical ones: XALE AND CARIBOO, B.O.

The following are typical ones: YALE AND CARIBOO, B.C. Vernon.—The fruit crop in the Okanagan Valley is a heavy one and of excellent quality. Some orchards are giving nearly twice their former yield. The apples are large and free from Nova Socials said nearest asy to the coldstream Valley—the apples were to large and free from pests. Other fruits are equally suidable for pests and the apples are large and and climate particularly suitable for pests around or opples as can be seen any where. Plums do well and grapes 1 have proved on rives the suit of the sector sample of apples as can be seen any where. Plums do well and in good is for earliest market. The crop was very good and we are now busy with peaches. Fries for same are form \$1.00 to \$1.20 per 20-pound box. Early apples have brought the goare booking fine and prices will be bigher. -C. A. Enderby——Fruit of all kinds has

booking eff.a. and prices will be higher. -C. A. Enderby.—Fruit of all kinds has been extra heavy, particularly apples and plums, which are in good demand with fair prices. Strawberries started at 33.50 per crate and finished at \$2.60. Cherries addat two pounds for a quarter. July apples brought \$2.50 a 40-b. boo: Augusta, \$1.60. Septem-ber, \$1.25. All varieties of apples do-well here. Allboog little he best. All small fruits do well here. So far, this district has taken the most prizes, among which was the allver cup for the county.—W. L. A. NEW WEFTRINSTER CO., B.O. Ladner.—The fruit group in the pro-

Ladner.—The fruit crop in the pro-vince is easily 75 per cent. larger than last year. This is due in a large meas-

vince is easily 75 per cent. larger unau-last year. This is due in a large meas-ure to the number of young trees com-ing into bearing. The cerp conditions in the old methanism is a set of the control of the set of the

the Lake Ere chainet. All are ousy shipping. "W. D. A. R. Weipping, "W. D. A. R. Nemington.-The few grape vines we now have in this locality are pro-ducing a full crop. Most varieties of peaches have a full crop, the excep-tions being those of the Crawford type. Pears, as a rule, are loaded heavily, also most varieties of apples. All fruit is rather cleaner than usual, but hardly up to the average size in some cases. Peaches and grapes are being more ... T. H. Mc Market and the second the second to DERIAM CO. ONT. Neweastle.-Apples are standing the drought fairly well. Though the growth has been checked somewhat,

HORTICULTURE Funct Crop Conditions The aprile crop of Ontario has designed to the aprile crop of Ontario has a problem to the aprile crop of Ontario has designed to the aprile crop of the or ten milles designed to the aprile crop of the or ten milles designed to the aprile crop of the or ten milles designed to the aprile crop of the or ten milles designed to the aprile crop of the or ten milles designed to the aprile crop of the or ten milles designed to the aprile crop of the or ten milles designed to the aprile crop of the or ten milles designed to the aprile crop of the aprile crop of the crop of the or ten milles designed to the aprile crop of the or ten milles designed to the aprile crop of the or ten milles designed to the aprile crop of the ten aprile crop of the or ten milles designed to the aprile crop of the ten aprile crop of th

Apples are a very light crop. The memory bild and while prices here an im-druins of all kinds are being shipped cellent returns. Anyon, Duchess and paying \$1.26 or the fruit and from Grinnshy. Car lots are being thevell pears are veril loaded on the The price is advancing.-L. W.

September 30, 19 8

66 What is The New System of Scientific Agriculture? Folding more than indemess and common sense shown in handling the solid of our weakers measure measure sins the rainable may be held or immediate absorbing the provide these of growing errors. The a sprane that every farmer-liket, Weak, North or fourth-can profitably follow. It is the very seemes of practice that every farmer-liket, Weak, North or fourth-can profitably follow. It is the very seemes of practice to an incise or rainable common sense of the second second second second second to an incise or rainful year; they wooke how our Globardo-WeakesHow's ray more than the set every second secon "Hurry to Colorado" Now Any with a few hundred dollars cost the schear brane of user corrections of the schear brane of user cost the schear brane brane of the schear brane bra Book Free. Our new free book fresh from the preas is described below and tells why you'll be glad after you "Hurry to Colorado." Send for it now. Explanation of Cuts Below.

Photo at left. These are stacks of Alfalfa on the farm of D. J. Shearer. Photo at right. An enormous polato field—40 acres—harvesting over sooo libe. to acre—30,000 lbs. in all and sold on the ground for \$3:00.00.

"Hurry to Colorado" Now

a fast passing opportunity possibilities for great incre point of Embrace this of

The Farmers Land & Loan Co. 145 LaSalle Street.

Chicago, Ill.

HASTINGS CO., ONT

HASTINGS CO., ONT. Belleville.—The crop of winter ap-ples that will be fit for packing will be considerably lighter in quantity than the indications showed a month ago. The apples are dropping quite badly on account of the dry weather and the coding moth has developed considerably.—F. 8. W.

considerably.—F. 8. W. JACQUES (ARTIER CO., QUS, Lachine Locks.—We have a medium to ight crop of early winter apples. Fameuse are clean and of good color and fair size. Three is a very serious drought prevailing at present. The rainfail in August was J.73 inches. Up till Sept. 18th, it was .31 inches. It has affected the crop greatly. The market is slower than last year.— C. BOUVILE CO. ONT.

ROUVILLE CO., QUE.

Abbuidtond--Owing to continued dry and hot weather, apples have rip-ened prematurely, causing them to be under-sized and to drop badly, which will reduce the commercial value of the crop 50 per cent. of what was in sight a month ago. Two cars of wind-fails in balk were loaded recently at 40 cents a barrel at ear, and many more on might be filled at the same for different above the same transformer and the same transformer.

Two series a parrel at car, and many more cars might be filled at the same rate. -J. M. F. S. S. ANNA SAD IBENVILLE CO., QUE. Henrysburg Centro.-In the first part of the ground is literally covered with fruit. The long continued drought ruined the crop for this year. In some orchards half the trees are bare. What few are left are ripening fast. It will hurt the keeping of them for the win-ter. Pewnukees are all down; McIntesh, and Faneuse, two-birds. There were an another the second at the second seco

I. W. S. Lower Gagetown.—Apples are con-siderably less than usual this year, although fall varieties, such as the Duchess, made a good showing. Fa-meuse, Wealthy and Golden Russett are only a medium erop. Of late, Fa-meuse have commenced to show signs of spot. Bishop Pippins end Alexan-der will, I think, prove a good erop.— G. MacA. G. MacA

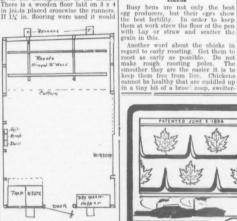
A farmer can sell dirty seed to dealers to re-clean, but he makes him-self liable by selling it to farmers who intend to sow it. Farmers should take adawnage of the seed depart-ment at Ottawa and have their seed markered I will case them nothing analyzed. It will cost them nothing, not so much as a postage stamp and analyzed. It will cost them nothing, not so much as a postage stamp and analysis made by the seed branch is $\frac{1}{2}$ valuable asset to the farmer when he comes to sell his seed. It will help him to get the highest price for the seed he has for sale.-T. G. Raynor, B.S.A., Seed Department, Ottawa.

"I have read your paper and like it very much. I would like you to send me a few sample copies which I will give to some of my friends, after which I will try to get them to subscribe."Mr. George Jacques, Perth Co. Out Co., Ont.

When cutting clover seed, do not contenninate the seed of the whole field by taking weeds off of the killed-out places. Leave these portiona by themselves when cutting.-T. G. Ray-nor, B.S.A., Seed Dept., Ottawa.

The Canadian Dairyman and Farming

F.C. Efford. Macdonaid Collex, Que. We have been using a colony house at Macdonald Collex that gives very good astisfaction. The house is sim-ple and cheap and acems to fill the hall very well. The floor is 8 x 12 ft. and is built on two runners 6 x 8 ind adar rails serve the purpose very well. The studding is 6 H high and it has a double roof. It is sided with single matched lumber, except at the east end where it has a double thick-ness, and a layer of building paper. The roosts are at this end. The photo on cover shows what the the ouse looks like and the ground plan gives the arrangement of the inside. There is a wooden floor laid on 3 x 4 in joi.ts placed crosswise the runners. If 1½ in. flooring were used it would



do to lay it on the runners direct and do away with the joice. The building usually faces the south having the door towards the west, this

The building usually faces the south having the door towards the west, this answers very well as our worst winds come from the east. The roots are placed in the east where the double boarding is, they are about 20 inches from the floor and are made by notch-floor pieces that are hinged to the wall at the back, a chain is fastened to the wall 3 feet above the hinges, the other end of the cross pieces, long enough to let the rooss down level. This chain is used also to hook the roots up during the day. No drop board is used and the droppings are allowed. The ourtain that hangs in front of the roots is made of factory cotton and comes to about one foot of the floor. It is let down only on very cold nighty in winter. A roller attached to the bottom of the cottom makes it possible by the use of two staples and a stout cord to roll theoratin up very quick. "The small hopper on the back wall is divided into three mats, having

The small hopper on the back wall is divided into three parts having grit, oystershell and dried beefscraps for the bens to eat at will. The trap



HOW TO BUILD A GOOD FENCE made at home. Don't fail to write for a noory. It's free. THE BANWELL HOXIE WIEE FENCE CO., Ltd. Dept. () Hamilton, Oniario.

STORES ()

FACTORIES

8

this publication when writing to advert

World

Peultry at St. John.—The poultry exhibit at the New Brunswick exhib-tion was equal to many larger ex-hibits in quality. The American and Mediterramean breeds were superior to the European and Asiatic. H. D. Smith of Waitham, Mass., avaraded the prizes and spoke highly of the ex-hibit.

Items

grain in this

POULTRY YARD A Good Poultry House F C. Elford. Macdonaid College, Que. We have been using a colony house to Macdonaid College that gives very good satiafaction. The house is an the divery well. The floor is 8 x 12 ft, al is built to two reactions of the henses can be at it out the vindow. This house has been in the vindow. Next veck I want to of this house to the farmers and the system of feeding. The mode is a stree of the the hense can be the system of feeding. The mode is the the the system of the diverse of the the system of feeding. The mode is the the the system of the diverse of the the system of the the hense can be the farmers and the system of feeding. The house is the the the the the system of the diverse of the the system of the diverse of the hastlers. If they are active they are almost invariably heality.

Good layers will always be found among the hustlers. If they are active they are almost invariably healthy. Exercise creates in them an appetite, develops bone and muscle, stimulates healthy circulation and promotes digestion.

Make arrangements for fattening

make arrangements for fattening Make arrangements for fattening all birds, either cockerels or old hens, before they are marketted. If you have not a feeding crate or two, rig up and old packing box, or better still have a good solid crate which with the set of the solid solid transform Give to boilt plans. If of rash water, It is surprising how much fowls will drink if they have it fresh and where they know right where to find it when-ever they want it. This is especially true of the laying hens. Eight times out of ten a hen whene coming off the nest after laying will go direct to the water and drink long and deep. This thirst is produced by the muscular effort put forth in delivering eggs. During the effort great combustion takes place to produce the energy, thus depleting the tissues of water. So do not neglect the water. So do not neglect the water



THE METAL SHINGLE & SIDING CO. LIMITED,

PRESTON, ONT. AND MONTREAL, QUE 75

The Canadian Dairyman AND Farming World

Published by The Rural Publishing Com-CHE A-CHED

1. THE CANADIAN DAIRYMAN AND FARMING WORLD is published every Wednesday. It is the official organ of the British Columbia, Manitoba, Bastern and Guebeo Dairymen's Associations, and of the Canadian Holstein, Arribire, and Jer-sey Cattle Breeder's Associations.

and Cattle Resedent Addition. We shall be added and a set of the set of th

CHANGE OF ADDRESS — When ange of address is ordered, both and new addresses must be given. the

and new addresses must be given. ADVERTISING RATES quoted on ap-ation. Copy received up to the Friday beding the following week's issue.

6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

CIRCULATION STATEMENT CIRCULATION STATEMENT The paid-navanes subscriptions to The Canadian Dairyman and Farraing Word scholar bairyman and Farraing Word scholar in de copies in scholar scholar scholar scholar in scholar free

OUR PROTECTIVE POLICY

Mailed tree on request. OUP PROTECTIVE POLICY We want the readers of The Ganadian that they can deal with our advertisers with our metrator of our devertisers with our metrators of our devertisers bould any subscriber have cause to be disastind with the treatment he receivers the first of the second second second we find reason to belive that any of our lightent degree, we will describe the adjust of the sport. Thus we will not adjust the our subscriber the second second second second second second only protect our readers. but our repu-sent to the second second second second protect our readers. but our repu-sent to the second second second second protect our readers. but our repu-sent to the second second second second protect our readers. but our repu-sent to the second second second protect our readers. but our repu-sent to the second second second protect our readers. but our repu-sent to the second second second protect our readers. but our repu-sent to the second second second protect our readers. but our repu-sent to the second second second to the second second second second second second to the second second second second s

THE CANADIAN DAIRYMAN AND FARMING WORLD PETERBORO, ONT.

TORONTO OFFICE. Room 306 Manning Chambers, 72 Queen St. West, Toronto.

PLOWING AND PLOWING MATCHES Proper tillage of the soil begins

with good plowing. Yet, notwithstanding all the improvements in modern agriculture, it is doubtful if as much attention is given to plowing today as twenty-five or thirty years ago. More plowing is done, but our experience would indicate that it is not as well done. The chief aim of the plowman of to-day seems to be to get over the ground, no matter how. The plow that will turn the widest furrow and do it in the quickest time is the favorite. There is more shallow plowing done than is conducive to the best plant growth just because it can be done in a hurry. There are some soils for which shallow plowing is the best thing, but on a great many soils, deep plowing and a thorough cultivation of the soil are necessary to the best results in plant growth.

The plows of fifty or one hundred character and few highly bred sheep other line of trade.

years ago were built on exactly the same principle as those in use to-day. The modern plow will do its work easier and better, but essentially it is the same kind of an implement as those used a couple of generations ago. Improvement in plowing must therefore depend more upon the skill of the plowman than anything else. If he is content to merely turn over the ground, there will be no improvement and the first essential in proper tillage will be done in a slipshod careless fashion that will have its effect on the future crop. The bulk of the plowing in this country is done in the fall, when there is not the rush there is in the spring season. There is time, therefore, to give attention to the quality as well as the quantity of work done.

Twenty or twenty-five years ago the annual plowing match was as popular in every locality as the fall fair. The interest in these matches has largely died out and the number held in Ontario is very few. If an examination were made it would be found that where a plowing match is regularly held and an interest taken in it, soil cultivation is at its best, and crop production most successfully carried on. The man who plows well will cultivate his soil well. In other words the best plowmen are the best farmers. For this reason more attention should be given to encouraging better plowing. A revival of the old time plowing match in every locality would help in this direction. Farmers' Institute workers are constantly on the alert for new features that will interest more people in their work. Why not try the plowing match? A series of these held every fall, and properly conducted would be of great educational value, in creating an interest in better plowing among the young men on the farm, and among the older ones too. Too much attention cannot be given to proper cultivation of the soil. Good plowing is at its foundation and should be encouraged in every way possible.

THE TRADE IN PURE-BRED SHEEP

The sheep breeders are in somewhat of a quandary. The 30-day quarantine recently imposed by the United States Government upon all sheep entering that country has deprived Ontario sheep breeders of their best and most profitable market. For years Ontario has been the chief source of supply for breeding stock for the big sheep ranches of the Western States and the source also from which many American breeders secured their foundation stock. Our splendid flocks have been built up largely because of having this profitable outlet, where a steady supply at profitable prices was always required. The 30-day quarantine will cut off this trade completely. While it might be possible to send through car lots with more or less safety, as it will pay to send a man along to look after them, small lots or individual animals cannot be put through quarantine except at a cost that would make the business unprofitable. The accommodation at ports of entry is usually of very inferior he can turn it to account in some

would come through a thirty-day stay there with impunity.

The situation is a serious one and sheep breeders who have been depending on the American trade may well feel some concern as to the future. The only market open to them is the home market. Wool production was profitable a year ago, but it is not so to-day. The home market for lamb and mutton and the trade in export sheep with Great Britain are open to them. But a dependence on this alone means lower prices for breeding stock and a lowering of profits. The lamb market has been a very profitable one the past six months. Yearling lambs sold higher last spring than for many years past, and spring lambs have commanded a good price also. It may be possible to cater to the growing demand for choice mutton and lamb in a way that will make it profitable for the producer. Lambs fitted for the late winter or early spring lamb trade of our large cities always command high prices. But very few of our sheep men have given any attention to this trade. It may be possible to greatly extend it.

Then there is the growing demand for breeding sheep in the West and the Maritime Provinces. The trade with these parts of the Dominion has not been catered to as much as it might have been. Sheep breeders have had a more profitable market elsewhere. But with this cut off the demand in other provinces may be worth looking after, and may afford a market for a considerable portion of the surplus breeding stock, though lower prices would prevail than those obtainable in the United States. It is also possible to improve the demand for breeding sheep in Ontario. There are hundreds of farmers who do not keep sheep but might be induced to take up sheep-raising if conditions were more favorable. A drawback to the further development of the industry here is the danger of sheepworrying by dogs. The law on this question is not as effective as it might be. A concentrated effort on the part of sheep breeders, who have been somewhat lukewarm in the matter, might induce our legislators to enact measures that would make sheep-raising on the average farm a safe proposition in so far as the dog question is concerned. With the American market closed more will have to be done towards developing the home market and the lines we have indicated may afford some solution of the difficulty in which our sheep-breeders find themselves.

THE BACON TRADE

There has been much said and written the past few months as to the future of the bacon trade. It is a question that concerns the producer as well as the packer. The latter has spent thousands of dollars in erecting large packing houses and equipping them for the trade. He cannot but be vitally interested in the future of this important trade, which shows signs now of petering out. If it does his investment in plant and equipment will be a dead loss unless

But our concern is not for the pack-He is able to take care of himself. The farmer is also, for that matter, and perhaps, will not relish any advice on the bacon hog situation at the present time. However, it is not our desire to give him any advice, but merely to point to one or two things in the bacon hog situation that are worthy of the fullest consideration by every hog producer.

At the present time Canadian packing houses are not receiving onequarter of the hogs necessary to keep their establishments running to their full capacity. This means that it costs over twice as much to convert the live hog into bacon as it would under normal conditions. As to this, however, the producer need not worry much. But what does concern him is that this short supply leaves the field free for other countries to come in and displace the Canadian article in the British market. During the past year or two Denmark has been doing this with a vengeance and to-day holds a large portion of the British trade that was formerly ours. Are we going to allow the Danes to hold it and make no effort to recover lost ground, are questions uppermost in the minds of many in this trade at the present time. From what we know of agricultural conditions in both countries. Canada should be able to produce bacon as cheaply and of as good quality as in Denmark. On the quality score there can be no doubt. Canadian bacon has always stood high in the estimation of the English consumer. As to the cost of production we must be prepared to produce bacon and land it in Great Britain as cheaply as the Danes do or else quit the business. If we are not prepared to do this, our trade in bacon, which, taking a period of several years back, has been a profitable one for the producer, must go to the wall and our energies be directed in some other channel

If we drop out of the export trade the outlet for our hog products will be limited to the home market. Is this market of sufficient importance and is the home demand large enough to make it worth while giving much attention to hog production? There are some who think it is and who believe that if the tariff on green and cured pork coming into Canada were properly adjusted, hog products would command a profitable price in the home market. We must confess to some misgivings on that score. An agricultural country like Canada, with only 6,000,000 people, does not afford a very large outlet for a product of this kind No doubt, if the tariff were so adjusted as to keep out American pork, the home market would be better than it ia. But under the most favorable conditions it could not have begun to take the bacon Canada has produced during the past ten years. The question simmers down to this: If we are prepared to curtail the output of hogs to a small number, less even than we are now producing, then a profitable market can be found for them at home. If not then a market must be

found for the surplus outside of Canada, and that market is Great Britain. where we must come into competition with the Danes. Take any other line,

beef, mutton, cheese, or butter, if it were not for the outlet we have in Great Britain for the surplus the trade in these commodities would be reduced to a very small compass indeed. The home market, no doubt, is important, but to depend upon it altogether for a market for any of our staple products would mean the curtailing of the output to a very large extent to make the business profitable for the producer. What applies to beef, mutton, cheese or butter applies to bacon also. If we are to depend upon the local trade for a market for all our hog products we will have to return to the conditions existing before the export bacon trade was esablished, though it is true, no doubt, more bacon is consumed now than then, and a better quality is demanded by the home consumer.

But the present outlook for bacon may afford a solution of the problem. The outlook, as has been pointed out in our market columns in recent issues, affords good reason for believing that a turn in the tide has come and that bacon prices during the coming winter will be on a plane equal to those of a few years ago when every farmer, who managed the business at all carefully made good money out of A factor in the situation is hogs. corn. Dear corn means dear meat. The price of American corn is higher than it has been for years. This means a proportionate increase in the cost of producing the American hog. Some recent figures also indicate a short supply of hogs in the United States. Though the price of hogs here is governed largely by the price of bacon in England, the American supply has some influence on the British market, as there will be a smaller surplus of the cheaper grades of bacon exported from that country if it is short. Then Danish killings have fallen off recently to the extent of 5,000 hogs a week, and cable reports indicate a steady demand for bacon in Great Britain at recent advances in price. To sture up, everything points in the sport bacon trade existing the producing the right quality in the sport bacon trade existing the producing the right quality is the sport bacon trade the sport bacon trade to the sport bac price. To sum up, everything points

former took all the first prizes but one, and had a very fine display. The aced bull is a fine specime but-had to give way to his get, the senior yearling for diploma. The same may be said of their aged cow, although a cow of fine type, yet she was beaten for sliphom aby her daugitter, the two-or sliphom aby her daugitter, the twoyear-old

year-old. A herd of Dutch Belted cattle were on hand also from Sir William's farm, their novel color, and white belt seem-ed a wonder to many who had never seen them before. Among the dairy gradea that were shown, McIntyre Bros. Won all the reds but two, one going to Logan Bros, and one to Roper

Read This

Read This Here is a proposition which will be of great interest to you. Take a few minutes to consider it. For only two mere subscriptions to The Canadian will give you a good, nickel-phated watch. This watch is an excellent time-piece, stem wind, and fully guar-anteed. This of the convenience this watch add you no. Cr, perhaps your boy has not yet been given one. This would be a good way to secure one for him, or to let him earn one for himself. We are sure that you will feel fully repaid for the little spare time which you will have to give to secure the two new subscriptions. OTHER ATTRACTIVE OFFERS

OTHER ATTRACTIVE OFFERS

Other attractive premium offers are our live stock and cash prize offers, which are still open to all who wish to take advantage of them. Uur live stock premiums are all pure-bred stock and have given excellent satis-faction in over instance. Our each stock and have given excellent satis-faction in every instance. Our cash prizes will make a splendid opportun-ity for you to secure a little extra pocket money which may perhaps enable you to get some little confort or convenience for the commy winter which you had formerly decided that you could not afford. You do not have to wait until you secure the full appeal cash prizes. We will pay you for whatever number you send in to us, from one to 1,000.

VALUABLE MARKET REPORTS

VALUABLE MARKET REPORTS We are asking you to canvass for a paper which is well and favorably known all over the greater part of Canada. It is the only paper of its class in Canada which is published weekly at only \$1.00 a year, and each issue contains much valuable inform-issue contains much valuable inform-



the varying and often adverse conditions so common in the farm dairy and which largely determine the worth of the cream separator.

The new spindleless centre balanced bowl embodying De Laval patented features has immensely increased capacities, while reducing power regained in operation, and the whole machine has been constructed with the idea in view-that it should be-infinitely superior even in the smallest detail to anything ever made for the separation of cream from milk.

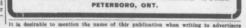


WINNIPEG

This Watch Free

VANCOUVER

MONTREAL



For Two New Subscriptions

Here is a channe for the log on the farm who would like to have a watch of his own. Seems the scheropicious of two of your neighbors, who do not now take. The Caxan Door vision of two of your neighbors, who do not to us with \$4200. We will it. as send you the watch free of cost. This watch is nickel plated, stem wind, an excellent time piece, and fully guaranteed. You will be sure to like it. Who will secure the first one' Address. CIRCULATION DEPARTMENT THE CANADIAN DAIRYMAN AND FARMING WORLD

farming. The keeping of live stock **Creamery Department** send contribu-k questions on ng and to sug-Address your ment. Recoursessessessessesses

Butter-Making Growing

Though cheese is high in price, and is likely to continue so for this sea-son, at least, there are no indications of a change from butter-making to cheese-making. The cream gather-ing creamery is here to stay. Farmers once accustomed to this kind of dairying rarely change, even though a larger direct cash return will refrom patronizing a cheese fac-The cream gathering creamery alt tory. is suited to districts where dairying is not made a specialty of. The cream can be hauled long distances at a comparatively low cost. The farmer with a few cows and a cream separator, can secure the cream and care for it with little trouble. He has the skim-milk at home sweet for young stock, and is enabled to follow a mixed line of farming to advantage. Be-cause of these and other things, the cream gathering system holds patrons from one season to another. its

It was not so in the old days when the whole milk system was followed the whole milk system was tollowed in creanery butter making. The skim-milk was of less value and of-ten, because of its sour condition, of little more worth for feeding stock than whey. This placed butter-making at a distinct disadvantage, as compar-ed with cheese-making. The profits from the latter were very much great-ter and enveryment of the source of the trom the latter were very much great-er and no creamery could live along side of a cheese factory. In contrast to that condition, there are sections to-day that formerly made cheese, en-gaged in butter-making. This is not saying that the cream-gathering creamery will eventually re-place the cheese factory. No one ex-

gathering creamery will eventually re-place the cheese factory. No one ex-pects that it will so long as the pre-sent demand for Canadian cheese con-tinues. It would not be a wise policy to have it do so. There are many districts with well equipped factories, and every facility for making fine cheese. These should continue in the business. There is good money in it for the farmer who keeps good cows, and makes dairying more or less of a specially. Many farmers have proven this, and are not likely to change over without there is some good reason for

so doing. Where butter-making will have its greatest expansion is in the newer districts. It is bound to become an important industry in the West. Every wear we see the number of creamerics increase. The western farmer must, increase. more and more, engage in mixed





quantities,

its cost is no inconsiderable item.

Windsor Salt goes farther-and does better

work. Its cost is really less and it



makes the butter worth more. Ask your grocer.

Grain growing will continue to be his specialty. But in order to maintain the fertility of his land and to have something to fall back on when crops fail, he must take up some other line of farming. Fruit-growing he cannot do. Cheese-making involves hauling the whole milk to the factory. Where distances between farms are great, as distances between farms are great, as they are in the west, the expense of hauling is costly. But butter-making, on the cream-gathening pian, fits in with these conditions. It enables the farmer to obtain a little ready money during the months when none is available from other sources. He can raise some young stock while so do-

ing. The home market is the chief of for the butter output. In the West every town and village becomes a market for butter. The number of market for butter. The number of towns increases every year. They grow in size just as quickly. The people must have butter, and at once create a demand for it, which the far-mers of the West can supply at very little cost to themselves. Canadian cities, both East and West, are grow-ing in importance and wealth, and the amount of butter required to supply them is increasing every year. The butter-maker, therefore, may always be assured of a market at home for most of his output. If there is a large most of his output. If there is a large surplus the export market is always open.

Home Butter-Making

In making butter on the farm, one of the most difficult things to deter-mine is that state when the cream is the proper ripeness to be churned. It is difficult to get uniform results, hav It ing one churning like another. Acid tests have been invented for this work but a skillful and experienced buttermaker is able to judge closely as to the ripeness of cream for churning by its appearance.

Churns with no fixtures inside are the best. A revolving barrel churn is the best. A revolving parter cruth is superior to other kinds. Such brings the butter by the concussion of the cream falling from one side to the other. Fill the churn to one-third or one-half full. Before putting in the

or one-half full. Béfore putting in the cream, scalit the churn with hot water. Bring the cream to the tright temper-ature for churning before putting it in the churn. This may be done by surrounding the vasael containing the cream with cold or hot water as the cream requires. Always churn at as cream with cold or hot water as the cream requires. Always churn at as low a temperature as possible and have the butter come in a reasonable time. The colder it is churned, the less hutterfart will be left in the but-termilk and the more perfect will be the granules of butter. Each butter-maker must determine by trial the right temperature to obtain the best results. The churning temperature de-pends, in sort degree, on the breed of cows, the individuality of cows, the jerical of lactation, the feed, and, most important of all, the richness of the cream. Use good, fine dairy salt for salting

the butter. Never use the common coarse barrel salt which is so fre-quently used. After salting, working of the butter is necessary to get the salt evenly distributed and to expel a portion of the brine. It should never salt evenly distributed and to expel a portion of the brine. It should never be worked in such a way as to injure the grain and give the butter a greasy appearance. After working, pack the butter immediately in neat, clean packages or put it in such form as is required by the market. If making butter to put on the gen-eral market, put up an article that the market demands—the article it will nay the best price for. The best

the market demands—the article it will pay the best price for. The best way to learn this point is to have your butter eriticized by a dealer who knows what takes best on the market. Then profit 's what he tells you.—W. M., Bethany, Ont.

Dairy Exhibits at St. John

Dairy Exhibits at St. John The dairy exhibit at the New Bruns-wick Exhibition although not large, was of a high quality, particularly the cheese. The Judge, Geo. H. Barr, Ottawa, stated that while the cheese was made up in splendid shape, it lacked the nutly flavor peculiar to the "finest." The creamery butter was excellent and equal to any he hand even of points. While one lot of dairy scored over off pator, resulting from the cream being too ripe and giving the reacting being too ripe and giving the butter an old flavor. The butter-making competition in which there were about a dozen entries was one of interest, and was superintended by interest, and was superintende C. W. McDougall and L. Daigle.

BUTTER AND CHEESE AWARDS

Cheese, 3 colored, Chas. J. Cooke, New Perth West, P.E.I., 1st; Lee Hughes, Kingora, P.E.I., 2nd; A. D. McLellan, Bridgetown, P.E.I., 3rd; James N. Carter, Winsloe road, P.E.I.,

4th. Cheese, 3 White, Cornhill Cheese & Cheese, 5 white, formani Cheese & Butter Co., 1st; Petitochiac Cheese & Butter Co., 2nd; C. J. Cooke, 3rd; Am-gus D. McLellan, 4th. Butter, 2 boxes (25 lbs. or over) Sus-sex Cheese & Dairy Co., 1st; Eveleigh Dairy Co., 2nd; Brookfield Cheese

sex Cheese & Dairy Co., 1st; Evelogin Dairy Co., 2nd; Brookfield Cheese Mnfg. Co., Brookfield, N.S., 3rd; F. G. Lang, North Tryon, 4th. Butter, prints (24 Ibs.) Sussex C. & D. Co., 1st; Brookfield C. & C. Co., Jud; F. G. Lang, 3rd; Rosland Farm, Urbania, N.S., 4th; Eveleigh Dairy Co. 5th. Co., 5th.

Co., 5th. Butter, Crock or Tub (20 lbs. or more) Geo. McAlpine, Lower Gage-town, lat; W. N. Sterrit, Grey's Mills, 2nd; W. J. King, Sussex, 3rd; Roper Eros., Charlottelevin, 4th.) Roaland Farm, 1st. W. J. King, 2nd; Roper Bros, 3rd; Josselyn & Young, Silver Falls, 4th.-W. F. S.

Pasteurized Sour Cream

Writing to the New York Produce Review on the question of pasteurized sour cream, H. Weston Parry, Oxford Count, Ontario, says: "I have pasteurized a lot of thin, sour cream and have every reason to consider it advantageous. I always comdo a lower nateuring tempera-

consider it advantageous. I always employ a lower pasteuring tempera-ture for thin cream than for thick, as there is less fat in a given volume to be acted upon, which consequently causes it to be more thoroughly heat-ed. Another reason for using a lower temperature is that thin cream ad-heres on a revolving metal surface in permits of more thorough heating of the fat globules than is the case with thick cream. Of course, a lower temthe fat globules than is the case with thick cream. Of course, a lower tem-perature is advantageous for thin cream too, on account of the more rapid "cooking on" which takes place at high temperatures. I have found 165 degrees F, to be high enough for thin cream and the subsequent cool-thin cream and the subsequent coolthin cream and the subsequent cool-ing, of course, can be carried as low as possible, but not below 32 degrees F. However, I have been content to cool to 50 degrees F. And to churn at 52 degrees F. These temperatures give a good body and need not be main-tained for as long a time as thick cream pasteurized at 185 degrees F. requires. Thin cream cools much fast-er than thick cream. I have not found any greater loss in handling pasteur-ized thin cream than pasteurized thick cream. I find the pasteurizing removes recam. I find the pasteurized thick cream. I find the pasteurizing removes much of the objectionable flavor of both kinds of cream, and I use more starter in thick cream than in thin."

Mold on Butter

They are having trouble with mold They are naving trouby with most on butter in some shipping centres. Perhaps this dry muggy weather is having something to do with it. There may be other causes. If the refriger-ator at the creamery is not kept at a low temperature mold is sure to ap-



September 30, 1908

pear on the boxes, especially if they have been put in in a damp condition. If the refrigerator cars are not proper-by iced mold will develop. Parafining the tubs is said to pre-vent mold. Where the tubs are well soaked and the butter properly cared for when packed it reaches its destina-tion in a bright and clean condition. A thorough soaking of the boxes in it, addition the butter properly cared for when packed it reaches its destina-dent of the soaking of the boxes in the soaking the tubs in water and rubbing the boxes on the bottom and sides well with sait will accomplish the same results. A thorough soaking however, does not mean dipping the boxes in water and taking them out again. They should be soaked for 24 hours. A goog plan is to have a tank for the purpose. Place in this tank each day enough boxes for the , foi-lowing day's pack and put a weight on them to keep them the reacted requently or it will get stale. Mold is an unsightly thing and but-to keep their butter free form it Some-times butter arrives in a warehouse in such moldy condition, that it have

in such moldy condition, that it has to be cleaned and repacked to make value and injures the creamery's revalue and injures the creativery's re-putation. Appearance counts for a great deal in the marketing of butter and makers should aim to have all they make in a clean, bright condition when it leaves the creativery.

"I thought the I would drop you a few lines to let you know that I would like to be an agent for your valuable paper. If you would like to give me a chance let me know at once as I would like to start right away. as I would like to start right away. Tell me what commission you give on each subscription. I will try to make it a success. Please send me full particulars, also sample copies." --Mr. H. J. Stumpf, Bruce County, Out



Cheese Department Makers are invited to send co this department, to ask question ---king and to Address ve iscussion. Maker's D

Talks with Cheese Makers Through the kindness of Dairy In-structor R. T. Gray, who has over-sight of the cheese factories in the Campbelliord district, in Eastern On-tario, a representative of The Cana-dian Dairyman and Farming World in August was permitted to accompany him on a visit to factories in his

There are no men in the dairy busihonestly or by harder work, than the Dairy Instructors. They are busy men, being on the road from one week's end to the other. The great improvement that has taken place in the quality of the dairy products of Ontario during the past few years, can be traced almost entirely to their Can be traced almost entirely to their work. The instructors exert great power for good in their respective dis-tricts. A word to the cheese maker here, pointing out some small defect that has not been noticed, and which might in a short time cause no end of trouble, a word of commendation of trouble, a word of commendation to the diligent maker or farmer, all have their reflect and help to bring about improvement. The instructors are doing valuable work, keeping the business going on smoothly, quietly, and profitably, for the maker and far-mer allike

and profitably, for the makers and ar-mer alike. Everywhere we want the makers were glad to see instructor Gray ("Bob"). In practically al the fac-tories visited the cheese that was found on the shelves gave strong eri-dence of the value of the co-operation that now exists between the cheese maker, the dairy instructor, and the farmer. A great uniformity in the cheese of the section was noticeable.

A' MILK SHORTAGE

A Much shutch to be the provided of the set of the set of the set of the pared with last year. Mr. John Kit-chen, the cheese maker in Empire Factory, has had 17 years experience. He reported that at the time of our visit in August, he was zooo lba, of milk short of the amount he had re-reised un to the same dire bet were visit in August, milk short of the amount he has re-ceived up to the same date last year. This year, however, farmers took bet-ter care of their milk than ever be-ter care of their milk than ever fore. "I have never seen such an im-fore. "I have never seen such an im-fore. "I have never seen such an im-fore." I have never seen such an im-former in the milk supply." said fore. I have hever seen such a min provement in the milk supply," said Mr. Kitchen, "as this year. During the extreme hot weather, the care the the extreme hot weather, the care the farmers were giving their milk was plainly evident in the nice, close, good textured curd that I had when manu-facturing the milk." Mr. Kitchen owns the Empire Factory, which was found in a clean, attractive condition. The cheste on the shelves ware among the finest noticed anywhere. Ches of the younger makers. Mr.

One of the younger makers, Mr. William Langmuir, is making this season in the Kimberly Factory. The season in the kimberly Factory. The milk supply at this factory this sea-An has been about 20 per cent. less than last year, but the quality of the milk has shown a great improvement. The curing room was found to be de-cidedly warm. The factory is owned by the natron by the patrons.

A WELL-KEPT FACTORY

Forest Factory reflects credit on the breast Factory reflects credit on the the cheese maker, Mr. David Wallace, as it was neat and clean ard present-ed a nice appearance. The cheese in the curing room were uniform and neatly finished. Mr. Wallace, like the rest. reported a great improvement

walls were as white as snow, and the vats and dairy utensils clean and tory cannot be said to be up-to-date. crease over previous years. Our sys-bright. The maker, Mr. Frank Lit lt is a very old building, and no doubt the pasted charge of the factory for will soon be replaced by one more three years. He is a graduate of the modern. Mr. Tohn West makes the cheese in passed with first class honors in the the Harold Factory. This factory is les in operation. passed with first class honors in the class of 1007. Since then he has up-held the reputation of the institution as a thorough and competent maker. Mr. Little stated that he was very particular in regard to the quality of the milk he accepted on the weigh stand in the morning. Any milk not up to the standard was returned. For-tinately, however, in hand a fails patrons took good care of their milk. A TIDY FACTORY

A TIDY FACTORY At Shamrock Factory, Mr. Chas. Tinn was at the helm. He has been making in this factory for the past seven seasons. He is one of the most successful makers in Hastings coun-ty. This is a large factory and is owned by the farmers. Mr. Tinn stated that they were short in their match that they were short in their match that they are used to be the ing, as it has een years of active ser-vice and has outprown its usefulness. vice and has outgrown its usefulness, being rather small and cramped to being rather small and cramped to work in. It is however kept as clean and tidy as it is possible for the mak-er to keep it. No doubt in a very short time a new and up-to-date fac-tory will occupy this site, and be a credit to the large business that is be-ing done here to world be to able ocing done here, as well as to the en-terprising farmers who supply the milk.

AN UP-TO-DATE FACTORY

AN UP-TO-DATE PACTORY Mr. A. T. Neal was found in charge of the Stirling Factory, which is also owned by the farmers. This is a new and up-to-date factory with cement floors throughout. It is nicely paint-ed inside and out, and is carefully mharge of i. M. Ni, who has been been a very successful maker, win-ning prizes at the local fairs, includ-ing Marmora, Stirling, and Madoc, where in1 gob he won the silver phy cup, valued at \$50.00. Mr. Neal approves very highly of the pre-sent system of instruction, and said that his milk supply had greatly im-proved during the past year. Mr. Neal is a strong advocate of Wyan-dotte Dairymen's Cleaner and Clean-ser for keeping utensils and vatis ser for keeping utensils and vats clean and bright, and also strongly advises his patrons to make use of it. In fact every cheese maker visited spoke highly of it.

A CEMENT FACTORY

The Evergreen Factory, near Stir-ing, is a fine new building that has just been erected out of cement just been erected out of cement blocks. It is a credit to this section of country and one of which the far-mers should feel proud. The pat-rons have not as yet moved into it, but expect to very soon. They have a cheese maker in Mr. George Rose, who is a hard one to beat. Mr. Rose has been making cheese for 20 years, and is right up-to-date at the work. Mr. Rose is among the prize winners in this section of country and at Madoc last year made them all step some to gret a look in. I am very

Madoc last year made them all step some to grei a look in. I am very sorry that I could not grei a photo-graph of this factory, as it is well worth publishing in The Dairyman. We found Mr. "William Wright in charge of the Kingston Factory, where he was putting up a nice lot of chese. This is rather a small fac-tory, having only ar patrons, but it is kept in a nice clean condition. MILK SUPPLY IMPROVED

The Canadian Dairyman and Farming World

will soon be replaced by one more modera. Mr. John West makes the cheese in the Harold Factory. This factory is kept clean and tidy. This also is an old building, and has outlived its usefulness, but as far as the cheese maker was concerred, it was kept as

maker was concerned, it was kept as clean as it was possible to have it. Mr. John Storms was making in the Spry Factory. This is a small fac-tory and is quite a convenience for a number of farmers who are somewhat isolated from other places. It is own-ed by Mr. James Spry, of Stirling, one of Rawdon's most successful far-ners. mers.

MAKING MANY VEARS

At Maple Leaf Factory ,Mr. John Lane was found in charge. He has Lane was found in charge. He has spent 23 years in the business and is right up-to-date. His cheese in the curing room showed a uniformity of make that it would be hard to beat. This factory was built last year. It is constructed of cement blocks and is a beautiful building with good ven-tilation. It is easily kept clean and sweet. No provision was made for Is a local of the sensity kept clean and sweet. No provision was made for keeping the temperature under con-trol. This looks like a mistake, as upwards of 200,000 lbs, of cheese are upwards of 200,000 lbs, of cheese are upwards of 200,000 105. or cneese are made here each season. An improv-ment could be made to the surround-ings of this factory by levelling down and by filling up some of the holes around it. The patrons owuld think so if they once saw it done. This work probably will be attended to very soon. This is a joint stock factory, and has of natrons.

work probably will be attended to very soon. This is a joint stock factory, and has 55 patrons. Mr. R. W. K. Thompson was at work in the Springbrook Factory, where he is the Springbrook Factory, where he in the Springbrook Factory, where the Mr. Thompson has hear has a cope-cessful maker, and has won a large number of prizes at different fairs, among them being the Toronto fair, where he has secured many awards. where he has secured many awards. All the factories visited were found

to be clean and in a sanitary condi-tion, but at none of them had provision been made for the control of the temperature in the curing room, which the makers report runs up to, in some cases, as high as 86 degrees. This is bad, as it gives the cheese a chance to warm up and develop foreign flav-ors, which it would not under cooler conditions

The cheese showed a wonderful Gray stated that some 15 or more of his makers are all using the one starter or culture, which, in itself ensures a uniformity of flavor. Some other factories that were visited will be described later. All the makers are regular readers of The Canadian Dairyman and Farming World.—Jas. Irwin

In writing to The Dairyman and Farming World, N. J. Kuneman of the cheese department of the Mani-toba Agricultural College, says: "Never before was the dairy industry in Manitoba in a better condition. All the cheese factories and creameries have improved remarkably. The out-

Everett & Wylie, of Almonte, Ont., whose factory was burned a few weeks ago have placed their order with The Steel Trough & Machine Co., Limited, Tweed, Ont., for two Patent Steel Cheese Vats.

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER

WANTED TO PURCHASE. - Up-to-date cheese factory in good locality. Not less than 10,000 lbs. daily. Apply, giving par-ticulars, to Box "A." Canadian Dairy-E.167 man

CHEESE AND BUTTER FACTORY FOR SALE, cheap, and doing a good business. In Woodstock district. Apply, J. H. Williams, Embro, Ont. 8-930

WANTED.--Position as butter maker, by dairy school graduate. Excellent repu-tation: large experience. Box D., Cana-dian Dairyman, Peterboro. E-9-30

FOR SALE.--Oreamery in good locality doing good business; brick building, up to-date plant; good will; loc-house, every-thing convenient; satisfactory reasons for selling. 'Apply Box F, Canadian Determine, 'Apply Box F, Canadian

DAIRY BOOKS Our 36-page Catalog of Dairy and Farm Books sent free on request. Write to BOOK DEPARTMENT.

The Canadian Dairyman & Farming World Peterboro, Ontario

\$15 for 25 New Subscriptions

We will give you a cash prize of \$15 for securing a list of 25 new subscriptions to The Canadian Dairyman and Farming World at \$1.00 each. Sample copies free







TITE should every day call ourselves to account. What infirmity have I mastered today? What temptation have I resisted? What virtue acquired? Our vices will abate of themselves if they be brought every day to the shrift. Seneca

Soldiers of the Queen

They were driving home late one af- eviction the language which arose ternoon, all but Desmond, who had around the coach was fearful. Even gone to London, and Lawrenevs Cagney and the General were lost in horses were galloping up a long hill wohle aded in a little willage about At a word from their leader they which ended in a little village about ten miles from Avonmere, when strange cries and curt commands made themselves heard above the jingling of pole-bains, wheels and hoofs, and a turn in the road brought them upon scene of more life and activity than they had met before in their driving

14

their driving. A little hovel by the roadside was the centre of disturbance. It seemed deserted, and several men in the dark ejescreted, and several men in the dark uniforms of the constabulary were removing such pitcous shreds of fur-niture as it contained. Beveral neigh-bors stood about looking on with grim hopelessness. Some of the vomen-were erring into their shawls, and it was to them and to the men engaged in arrying the furniture that the hard commands were addressed. They were issued by a tall man who lounged, chewing a straw, against a tree. When he saw the coach, with is air of inportance and preservity its air of importance and prosperity, he bestirred himself and came for-

he bestirred 'himself and came for-ward to report. "It's a very stubborn case, sir." he told the General, the authority of vhose fierce eyeqlass he instantly re-cognized. "We've done this job twice before, and here we are at it again. The tenant goes back as soon as our backs are turned. I've sent for a troop from the barracks, and when they come we'll do it for good and all." all

all," "Good gad, sir," cried the General, "what are you afraid of? What is there to frighten you in those poor devils there?"

devils there?" "There're nasty devils when they're roused," the bailiff answered; "and several of them have muskets in those cabins of theirs."

canna of thers." Shiela, from her place beside Law-rence, turned to him for explanation. "What is it?" she cried. "What is going on here? What are those men doing?"

doing?" an eviction," Lawrence answered, with his eyes on his horses' ears. "I wish to goodness I had you and Mother well home out of it." "An eviction " she repeated. "Oh., what shall we do? What shall we do? How shall we stop it?" "We can't." he answered. "We can only get away from it." But the road was parrow and be

But the road was narrow, and be-fore the coach was again in motion all the chance of escape was again in motion an chance of escape was cut off by the spectacular arrival of fifteen or twenty scattle-ical soldiers who rode up, alert, curious, wondering what work lay before them. When they under-stood that they were to assist at an

At a word from their leader they stationed themselves at ten-foot in-tervals about the little house, and then the bailiff nodded to his two aides. With a gesture of sulky pro-test they vanished into the darkness of the little hut. A wall vent up from the assembled women; a wall com-posed of a mixture of "The Lord be



Grow Daffodils Like This at Home

Plant the bulbs now. When grown sing-ly in pots fine large blooms are secured. The one illustrated is about two-thirds natural size. In these columns, an arti-cle on growing bulbs indoory, will appear next week.

good to her !" "Och, woman dear, it's what must come to us all." "Oh, the devil fly away with the black-guards !" "Glory be to goodneas!" and "Wiras thrue !" But when the two constables respeared with their prey, even the men joined in the cry of "Och, the crathur, the crathur!" She was a poor, frightened, little wisp of an old woman, barefooted and wrapped in a scrap of ahawl. Her weak eyes caught the gleam of red

and brightened for a moment wisty, but they darkened when she the bailiff still chewing his straw

saw the bailiff still chewing in a single start of the tree. "Mrs. O'Donnell," he Hustered when he caught her eye, "this is the second time we've had to come here to tell you to pay your rent or leave the premises. We put you out three days ago. What brought ye back?"

days ago. What brought ye back: She looked piteously at one of her warders, freed the arm the other held, and raised a trembling hand to her

and raised a trembling hand to trembling mouth. "Answer me. What brought back?" commanded the bailiff a the man she had turned to urged: and

"Mrs. O'Donnell, ma'an, for the love of Heaven, don't anger him. Give me a word I can screech at him if you're anyways wake in yourself. Do now, ma'am, dear.

Thus encouraged she whispered to him and he transmitted: "She had no place clea to " no place else to go."

An old woman in the erowd broke from the restraining hinds of her friends, scaled the tumbled-down, over-grown stone wall, shock a de-fant fist at the soldier who half-heartedly tried to stop her and stum-bled up to Mrs. O'Donnell. "Ann dear, Ann dear," she cried, "you're to come an' stop with me. You'd be welcome, machree, for as low the ye stop." Shiela suidenly, "an't we atom them? Tall them who

"Father," said Shiela suddenly, 'can't you stop them? Tell them who you are. Tell them to go away—" "I'm not on active service, my dear," he replied. "I'm retired. vou are. dear.

These men know what they're about, I dare say.

These men know what they're about, I dare say." "Are you going to let them go on?" asked the gift. "Are you going to ait here and let them do this thing? Oh, if Desmond were only here?". "Hush, dear," Lady Mary urged. "We can do nothing now. You see her own friends will take care of her -Oh, mercilul Heavens, have pit?" she oried suddenly. "Lawrence, drive origin to one of his aide hubaliff nod gain to one of his aide hubaliff nod man throw something upon the low, thatched roof, had seem Mrs. O'Don-nell utrn and, with a wild abriek, bury her head in her friend's breast. The horses sprang foryard, and Shiela, looking back saw that the soldiers had formed in the road again and were tortling away from the turn of the road where, above Mrs. O'Don-nell's burning roof, the smoke was rising heavy and black, into the ahin-ing amber of the aky. The Fitzgeralds were ailent until Then Gread the gales of Avoumers.

Ing amber of use say. The Fitzgeralds were silent until they neared the gates of Avonmere. Then Gerald spoke. "That was most dramatic," he remarked approvingly. "Twe seen things very like it in plays. It was capital. The bare feet were especially happ?." "Don't, dear," his mother interrupt-ed. "I know you aren't serious—" "But I am." he assured her, and then asked idly: "I wonder where Oven's got by this time. He stayed behind there, you know. I wish I had. Those bare feet were so awfully loappy, gou know. I where I have to make One of the stayed of the stayed behind there, you know. I wish I had. Those bare feet were so awfully loappy, gou know. I'l have to make One of the stayed of the stayed behind there, you know.

him." But Owen did not appear until very late, and then he looked so dangerous, so wild, that it was Lady Mary who accosted him with: "I'm glad, my boy, that you stayed to do what you could for that poor dis-tranght ereature. Is she more com-

fortable now? Yes, much," he answered.

"Yes, much," he answered. "I must inquire into the case," said the General pompously. "It's out of my district of course; but I intend to discover how a woman of her years was so alone. Had she no children? no relatives? I must inquire——"

September 30, 1908

"Good gad, sir," cried the General, are you sure? The mother of nine "are you sure? soldiers !"

alders" "Solders" "Bure I" echoed his son. "Look at this. Look at what Father O'Toole took out of her poor old hand and asked me to show to you. See a bat-tered old cross and the name John O'Donnell, September 14, 1857-the Victoria Cross. The price of her oldson

est son." Cagney," yelled the General, mak-ing for the door—"Cagney, get the carriage at once! Master Owen has found the mother of poor John O'Donnell, the third man at Delhi."

"Wait!" cried Owen. "You're too te. She died an hour ago. She died "Wait!" cried Owen. "You're too late. She died an hour ago. She died thinking that those beasts of soldlers who burned her house were her boys come home from the war!" And he fell to crying bitterly with his head in his mother's lap.

-

How Women may Influence Men*

By Mrs. Geo. Clements, of Warsaw

In the first place, woman has a vast and noble influence in the home. From the cradle to the grave, it lies in wo-man's power to influence for the better; first, by imparting to the child all the pure, elevating and ennobling

all the pure, elevating and ennobling qualities that she wishes her son, as a man to be possessed of. For the hand that rocks the cradle is the hand that rules the world. By teaching a boy to love and re-spect his mother, you teach him to love and respect his will in after years, and the woman who possesses the over and respect how him band the love and respect of her husband has obtained a power over him equal to that with which the serpent be-guiled Eve. In the cause of temper-ance women are exerting every ener-gy of mind, body and soul in influ-encing men to vote for temperance. It is my candid opinion, that not one It is my candid opinion, that not one woman in every ten understands tem-perance as it is explained in the Bible. The woman who indulges in dancing from nine o'clock in the evening until daylight the next mornevening until daylight the next morn-ing, and continues this night after night, so that she is unfit to attend to her duties in the home, is as truly intoxicated as the man who drinks a whole flagon of alc. The same if we whole flagon of alc. The same if we indulge in any other amusement, or pleasure, to excess, whether it be skating, playing ball or boating. We are as truly inebriates as the man who takes an overdose of opium; we must cast the mote out of our own eye before we attempt to draw the beam out of our brother's. I would not for one minute condemn dancing, or other amusements; for dancing has been handed down to us from the days of Jephthah, when his daughter came out to meet him with timbrels and with dances, and there is no oth-er amusement that meets the requirements of physical culture the same as dancing.

Then there is another question : that of appearance and dress. Where is the man that gives a fig whether his cheeks are rosy, or his hair auburies, or whether his eyebrows are pencille. to perfection or not? He has more important questions to consider. Why important questions to consider. Why then do women place so much time and thought on these things? Why paint the rosy cheek, the snowy neck, much time Why paint the rosy cheek, the snowy neck, why load with jewels, why adorn the hair? Oh, lady, scorn these arts, but richly deck thy soul with virtues, and thus for duty prepare. Woman has no longer to pander to the good opinion of men, as marriage is no longer a more desirable state than single a more desirable state than single blessedness, because, both financial-ly and socially she is his equal, and at liberty to consider the two great questions, health and happiness, and how to best bestow them on others.

"Read at Women's Institute Meeting in Aug-ust, at Warsaw, Ont.

Factory Girls' Pleasures

Much has been said and written about the hardships of girls that work about the narosings of girls that work in large factories, shops and stores. It is becoming a well known fact, however, that many of these larger establishments are doing much of late to refute this reputation. Our atten-tion has lately been drawn to the contion has lately been drawn to the con-ditions existing at the plant of the In-ternational Harvester Company's works in Chicago. This firm is said to make 85 per cent. of all the ma-chinery that is used by the farmers of this country. A visit to the twine mill recently disclosed the following conditions

There are picnics up the lake in the summer time, rival ball nines and bowling teams; there are tennis bowling teams: there are tennis games, fire drills in all the plants. There are physical culture classes that work for an hour after closing time. There is a regular system of sick calls. The nurse reports at the sick calls. The nurse reports at the plant-surgeon's office morning, noon and night, and at a good many other times, is eternally on the go through the neighborhood.

WHERE THE GIRLS LUNCH

The long, low-ceilinged basement of the twine mill is divided through its middle by a gangway enclosed be tween two quarter partitions. In these are gateways upon either hand. Those on the left hand lead into the restaurant, and at each of them sits a checker, in a snowy white apron, that envelops her from neck to heel completely, handing lunch checks to the grils as they pass in. Beside the checker's desk is a long counter, the checker's desk is a long counter, where other white-aproned attendants ent cause and refuse to thrive, try have set out a fine array of coffee and cakes and pie and pudding, and din-warm water into the saucers every ners of soup, roast and vegetables, cach girl takes her own and finds a place at one of the numberless of life.

tables. Some bring their lunches from home in paper bags and buy coffee or tea at the counter at a cent per cup.

There is al¹ the jollity and freedom and good nature that you would find anywhere. The girls have access to a good upright piano.

In the rest room adjoining, girls In the rest room adjoining, guils can lounge on sofas, read magazines and funny papers, wait for their turn ty take counsel of a uniformed nurse, who at every noon-time with her lit-tle bag of ointments and bandages, and simple medicaments, holds "of-fice hours" here for the consideration of minor ills.

SANITARY CONDITIONS

There are dressing rooms and pri-vate lockers and lavatory structures apart from the mill buildings and connected by bridges from every flace where there are girls, there is a matrom. The walls and the machine every night by meumatic process, ventilation is merfer, the conditions ventilation is perfect, the conditions are inspected at every hour of the day, and the air of the shops kept as clear of dust and ill odors as may be. But the moral atmosphere is cleaner still. When you sift the whole matter down, the most that betterment work can do is to create in work-people self-respect and a desire to better themselves, to reveal the possibilities, in the coin of happiness and contentment that abide in higher living.

....

If house plants drop from no appar-ent cause and refuse to thrive, try watering them solely by pouring warm water into the saucers every day. Plants love bottom heat, and it



Can you tell me a reliable and satis factory way of curing hams?-Mrs. Fred. Brethour, Halton Co., Ont.

A reliable and satisfactory A reliable and satisfactory recipe for curing hams is found in our new Cook Book. If you have not secured one of these as a premium, you can do so by sending us two new subscribers for one year at \$1.00 each. The re-cipe you ask for will be published as soon as apace permits. In the mean-time we trust you will win a Cook Book for yourself in a short while.

Can you tell me if an arch for boiling sap can be made of concrete that will stand the fire?-A. DeLong, Oxford Co., Ont.

Ont. We would not advise anyone to build an arch from concrete, stone or brick. By the time an arch of this character is constructed one is putting in more money than a steel arch would cost them. The greatest trou-ble is that frost and fire do not min-tle wall troucher and the arch is use gle well together, and the arch is lia-ble to crack and heave, and every ble to crack and heave, and every season they have to go over the arch so as to make the surface level. With the steel arch, this work is done in a moment's time by simply raising or lowering the front end, which anyone can do in a moment or two. The Grimm Mig. Co., Montreal, Que., have had much experience in this work and can give further information regarding this subject.



15

the enjoyment of the piano at home all the time you are paying for it. Our Purchase Plan enables

you to buy a New Scale Williams Piano on practically your own terms. And you cannot buy a better piano at any price.

The "New Scale Williams" has won a place in the Canadian musical world, second to none. Its superb tone - its perfect action — its durability — and qualities that have taken the - are highest rank with all competent judges.

mail to us toda	y. J. A. J.
The Williams	A all and part
Piane Co.	State as it.
OSHAWA	a mad and in the second
0nt. 3	and a state
4.84	a par Ast Adr
-	0.0.

RANGE Train up a girl in the way she should bake. and when she is married she will not depart from

PANDO

"My mother taught me how to bake, and told me why she always used a McClary Range.

11.

A

"Now I have a 'Pandora', and, as with mother, my troubles are few. After fire is started, I simply bring thermometer to desired heat and leave the oven in charge of the baking. It's built for faithful service.

"While housewives with other ranges are poking fire and changing dampers, I sit and read the 'Joy of Living'.'



London, Teronto, Montreal, Winnipeg, Vancouver, St. John, N.B., Hamilton, Calgary. wirable to mention the name of this publication when writing to adverti





-are intensified by the use of Baby's Own Soap. It cleanses, cools, re-freshes and leaves the skin soft and fragrant.

The reason is to be found in the absolute purity of the vegetable oils and the natural flower perfumes, and the great care in the making.



Reseasessessessessessesses THE COOK'S CORNER ******* Send in your favorite recipes, for publication in this column. Inquiries pertaining to cooking are solicited, and will be replied to, as soon as possible after receipt of same. Our Cook Book sent free for two new yearly subscrip-tions at \$1.00 cach. Address, Housewith weight monow yutres, how the second sec

boil with just enough water to cover them, stirring and mashing the fruit with a wooden spoon until it becomes soft. When you have reduced all to soft. a smooth paste, stir in a scant 3/ lb. of sugar for every pound of fruit. Boil 10 minutes more stirring con-stantly. Take off and when cool, put into small jars or tumblers.

PICKLED ONIONS

The onions can be sorted and all the small ones made into the following pickle; peel the onions and let them lie in a weak brine made of salt and He in a weak brine made of salt and water over night; then put them in a jar and cover them with boiling whit wine vinegar, season with peppers in pods, and spices tied in cloths. Cover close and tie down when cold. All pickles should be tied down as air-tight as possible, and for that reason I use the little old fashioned jars with earthen covers.

quinces; after canning the best por tions, cover them with cold water an boil slowly for several hours, add more water if needed to keep them ndd covered. Turn into a flannel bag and let them drip all night. In the morning, boil the juice 20 minutes and skim well, then strain it again through a very fine flannel. Measure the juice and add to it, ¼ as much granulated sugar. Put it on to boil again until sugar. Put it on to boil again until it jellies on the edge or when turned onto a cold plate. Skim again and turn into glasses.

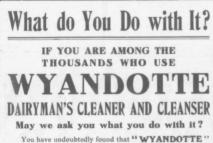
APPLE JELLY

Core and quarter nice, juicy apples, boil with a little water, put shows a proof jelly bag to strain. When all the juice is strained from the apples press the apples a very little to extract more ice, being careful not to have any the pulp go through. Add a cup iuice of sugar to a cup of the juice and boil 20 minutes.

OTINCE HONEY

Peel and grate 3 or 4 good sized, juicy quinces, and add to a briskly boiling syrup made of 3 pts. sugar and to the state Reil 90 minutes after the boiling syrup inade of a pie. sugar and 1 pt. water. Boil 20 minutes after the quince has been added. As quick as the quinces are grated, turn them into the syrup. Allow the kettle to stand on the back of the store until all are in.—Mrs. D. A., Carpenter, Ont.

QUINCE JELLY Take the parings and hard parts If not, why not? Write our Household around the cores of ½ peck orange editor regarding the Cook Book.



keeps your separators, cans and all milk utensils sweeter and purer with less labor and expense than anything else you ever tried. But is that ALL?

"WYANDOTTE" is not only a necessity for every milk handler but it is equally valuable as a harmless cleaner, time, labor and money saver in all household cleaning. For



instance, try it on the greasy dishes and pans or in the laundry. The results will be a revelation to you.

Try "WYANDOTTE" without risk

Get a sack from your dealer. Use it all according to directions, and if you do not find it perfectly satisfactory and all that we claim for it, return the empty sack and your money will be refunded.



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

The Canadian Dairyman and Farming World

Easy to Make We show below a simple, pretty lit-tle apron, which is quite the thing these days for porch parties and per-chance one may be as useful for other affairs as well. It is not so small as to be only ornamental. Any



A dainty and simple ap

of the thin summer materials such as lawn, linen, organdy, muslin, etc., can be used effectively for this little apron. The little spray of embroid-ery adds still farther to its charm.

If a hair mattress has once been thoroughly fumigated with carbolic acid an inroad of bugs will be ward-ed off for years. Sometimes this is done by the manufacturer, and in buying a new mattress it is well to make inquiries about it.

......

Save your bits of old velveteen for polishing. When washed they will prove as useful as chamois.



has failed. old they would they would be the were told they would grow them; that i couldn't be helped, Are you one of the n ber? A fair trial of **Home Treatment**

years to the study of skin, sca xional blemishes, and are daily

sg them. SUPERFLUOUS HAIR, MOLES, WARTS, te, eradicated for ever by Electrolysis, the olysis, the iently de

for ever by Electro that will perman with. Satisfaction HISCOTT DERMATOLOGICAL INSTITUTE

63 COLLEGE STREET, TORONTO, ONT.





BLOUSE WAIST 5696



The waist that gives a chemisette ef-fect is always a charming and dainty one. The waist will be found equally suited to the separate one so that its useful-ness is varied and its possibilities are many.

Material required Material required for medium size is 4½ yds 21, 3 1-4 yds 27 or 2 yds 44 inches wide with ½ yd 18 in wide for the in wide for the chemisette, or 1 yd used, ½ yd of silk

long sleeves are piping. The pattern is cut for a 42 and 44 in bust and will be mailed on receipt of 10 cents.



DRESS 556 Frocks made on such simple lines as these are the best possible ones for the tiny folks and can be rendered severe in finish for the boys or dainty by the addition of a lit-tle lace for the sirls. girla Material required

for medium size (4 yrs) is 4 1.4 yds 24, 3% yds yds 32 or 2 % yds 44 inches The pattern is cuit

in sizes for 2, 4, and 6 yrs and will be mailed on receipt of 10 cents.

K La M

ELEVEN-GORED SKIRT 5688

With a Tuck Plait at the back edge of Each 6

There is no form of plaited skirt that 18 more generally becoming, n ore sat becoming, more sat-isfactory, than this one. The skirt is made in eleven gores and there is a tuck volait at the back edge of each gore.

dige of each gore, be and the second it has not

The pattern is cut in sizes for 22, 24, 26, 28, 30 and 32 in waist, and will be mailed on receipt of 10 cents.

.....

CHILD'S UNDER COAT 5873



Cold weather al-vays brings with it the need for extra wraps for the small folks, and here is a convenient little garconvenient little gar-ment that can be slipped on under any coat and which can be made as warm and coay as possible. There is a little straight collar finishing the neek, and the sleeves are of the usual coat sort. It can be clos-ed invisibly as filmaed invisibly as illus trated or with buttons and buttonholes as

liked.

Material required for the modium size (4 yrs) is 3% yds 21, 2% yds 27, or 1% yds 44 in wide.

The pattern is cut for children of 2, 4, and 6 yrs, and will be mailed on receipt







Beceseccaceseccccccccc COUNTRY NOTES AND PRICES

YORK CO., N. B.

FREDERIOTON -- Root crops are matur-ing nicely. Potatoes from present pros-pects will be an average crop. Turnips will be the same. Several of our young. weis will be an average crop. Through will be the same. Several of our young, modern farmers have already shipped sev-gral earloads of the latter to Boston. Carrots and other roots crops are yielding well. Caulifowers are in good demand for pickling and table purposes. We seem to lates a monopoly in these at from 8 to well at 55 cents a dozen. Our ground and atmosphere is too dry for our celery and consequently it cannot compare with 8t. John seler; However, our imporves with 8t. John seler; Lowever, our, monte cellar, tor a month or two-4. B.

PRINCE EDWARD CO., ONT.

for a month or two-J. B. PRICE EDWARD CO., ONT. BETTIEL.-Threshing is now pretty well over, and the predictions of a lighter cropt has last year are being horse out. Far-field of the second second second second second the second second second second second second the second second second second second second the second sec Wells are drying up, cattle are beginning to shad all lac cows to fail very not-to shad all lac cows to fail very not-to shad all lac cows to fail very not-ed since September 1st for rain to mois-ent the wheat ground that they may sow fail wheat. The Hessian fly will have a fail wheat. The Hessian fly will have a fail wheat was a risk in Ontario en any land unless ploved air weeks before zeeding time and worked to conserve zeeding time and worked to conserve zeeding time and worked to conserve and the statement. Early sown wheat has a good top, but unless we get a good to phut encode growth, we cannot be asymptop all cost growth, we cannot be any optimized and the conventment of this statement. Early sown wheat has a good top, but unless we get a good top all cost growth, we cannot be any optimized and the conventment of the statement. Early sown wheat has a good top, but unless we get a good top and almost certain cold, drying April winds. The season has proyed an comparatively plentiful supply of orey in the ear, and, if taken care of a sure sup by of seed for next year. -0. M. M.

HASTINGS CO., ONT.

HATTINGS CO. ONT. HATTINGS CO. ONT. ELDORADO. — Harvest is over and the threshing is about completed. All kinds of straw which was short, but well filled and headed. The yield is better than lass year but about 30 per cent. below other abundant years. Corn and root croge drought. Corn is all cu hand root croge drought. Corn is all cu hand be ben filled. Turnips, beets and mangels are at a stand-till. Some neighbors report good cross of pathoes, but the majority are have attempted to plow have abandmend if the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal of the soil. Three are doing a great deal the entire both doing the wombine we have attempter of a few deep basins. We have have great great great deal. OXFORD Co., OXT. NORWICI.-The dry senther still contin-ues: it has lessened very materially the acreage from the fall what. Pastures are parched and dry, lessening the sup-plot of mills. Use classes detortes. With space the senther state of the array show, this summer was very dis-appointing, while with others supplied with enailage for the coves, it has been a hope is largely one. Dairying and raising tramers are very busy filling their siles. Corn is a good erop and has ripened early. The root crop will be light be-spication of the state of the state of the early. The root synthese is the state of the early. The root synthese is the state of the early. The state of the state of the early of the state of the state of the early of the state of the state of the early of the state of the state of the early of the state of the state of the early of the state of the state of the state of the early of the state of the state of the state of the early of the state of the state of the state of the early of the state of the state of the state of the early of the state of the state of the state of the state of the early of the state of the state of the state of the early of the state of the state of the state of the state of the early of the state of the state of the state of the state of the early of the state of t MANITOBA WINNIPEG.-In some districts, owing is slipshod michods of farming, weeds the result is a decrease in far dish, asso, the result is a decrease in far dish, asso, the result is a decrease in far dish, asso tempt has been made to combat where no at-tempt has been made to combat weeds throw had arrored methods of cultivation, they have been made to combat weeds throw had seen made to be put out of they have been arrow the put of the put of the second the second second second the second second second second second second second second the second second second second second second second the second second second second second second second second the second second second second second second second second the second second second second second second second second the second second second second second second second second the second secon have had no rain, excepting a couple of light showers for over two months.-F.

WATERLOO CO., ONT.

A term of the second se

The Canadian Dairyman and Farming World

WELLINGTON CO., ONT.

MIDDLESEX CO., ONT. APPIN-This district is experiencing a period of extreme drought. No rain, ex-cept a sprinkle, has fallen since the 19th of August, and pastures are failing. Wells are drying up, cattle are beginning to stand still and cows to fail very not-

OXFORD CO., ONT.

MANITOBA

HOLSTEIN FRIESIAN NEWS

The Canadian Dairyman and Farming World is the official organ of The Canadian Holstein-Frieslan A rate Unnation Holstein-Frieslan Association, all of whose members are readers of the paper. Mem-bers of the Association are invited to send items of interest to Hol-stein breeders for publication in this column.

TRUE TYPE OF THE HOLSTEIN

TRUE TYPE OF TRE HOLSTEIN Considerable public comment appearing the arrivultural papers upon the type (Indetend'Fischian cattle is very proper-tionation of the trees and the second error type of the breed moment in a pursuit of higher fat percentage in in the treeder type, is doing incalcul-ide damage to the future of the breed he true type of the breed is very ac-tion to the year of the breed is very pical specimers are not used to lilla-

world. With it has come the marvellous and profitable production or yield, the characteristic tendencies of powerful di-gration and perfect assimilation of food. These characteristics, derived from the Holstein, have been important factors in United the second second second second and Arrhitre breeds, of the Shorthorn and Arrhitre breeds, of the Shorthorn and Arrhitre breeds, and the Shorthorn and Arrhitre breeds, and the Shorthorn and Arrhitre and the second second second Continental ordentoid.

Continental offshoots. We have yo tue In America, it was the Holland type that by its productive power directed the attention of agriculturistic towards this breed, and it is asfe to assert that an ex-bid transformed to assert that an ex-markable private we have to those how ing means of access to photographs or de-scriptions, the close adherence to the Hol-land type in all these wonderful animals. Large size in the Holdstein is the first that no impress the casual observer, and the particular should neare be disc-parted.

This importance should are nerve be direction of the second should nerve be directed.
In defining pure-bred Holstein easting the second should nerve be directed.
In defining pure-bred Holstein easting the second should nerve be focus to the second should nerve be focus to the second should be s

ber." Burton W. Potter, in 1906, published the results of his investigations as to the weight of 60 large record cows, tested un-der the present Advanced Registry system,

der the present Ådvanced Registry system, 1984 to 1986. Mr. Potter summarizes thus: "Of the 66 cows, only 13 weight more than 1800 pounds each, and only 27 surpass the 1600 pounds, and the average weight of the whole number is 1350 pounds," etc. "Of the 25 buils, not one weights less than 1800 pounds, and only five less than 2000

pounds. Only three weigh more than 300 pounds, and the average weight of the whole number is 156 journal." Mr. 8. Hoxis, in the pamphlet, "Holstein-Priesian Cattle," (1980, writing upon the priesian Cattle," (1980, writing upon the condition at full are, they realisting condition at full are, they realisting with large size as the recognized pre-dominant characteristic of the breed, as the real size of the the size of the lates to the general conformation of the animal. There are three definite types, described as the milk and beef form, the the average form of this breed and that towards which conscientions breeders are directing their efforts to maintain and me

The average form of this breed and that towards which conscientions breeders are directing their efforts to maintain and im-prove, is the milk and beef form. The second second second second second the milk and beef type of the breed: "It is expecially strong in all vital particu-lar. The bones are fine compared with side, and the chine broad and strong com-the extreme milk form. The loin and higs are broad and smooth, and the rump high and level, compared with the angularity usually shown in the milk form. The well apart. Passing forward the shoul-ders are smoother and more compact than in the milk form, but of lighter weight han in the beef form. The printer la not the beef form through at the heart is closely retained. In the milk form the abd-dement is usually seven low, and the ribs capacious. The general appearance of the bail is strongly masceline, but that of the list are wider avenues that he the list is the general appearance of the bail is strongly masceline, but that of mills form." It may be further emphasized, that the

milk form." Is may be further emphasized, that the milk and beef form, describes a cow of the wedge form, with shoulders moderated by thick, deep and broad, crops well filed, barrel well rounded, ioin and hips broad and full, and quarters straight, wide and full. To this form of these cattle is due their strandinger constitutional vigor or vital

To this form of these cattle is due their extraordinary constitutional vigor or vital force, and it affects all their relations to their food, care and productions. manded with the angularity of appearance, the light shouldrer and chest, and the comparatively light quarters of cattle of the milk form. The future of the breed will be greatly endangered by these, who, then combination of or fat percentages, or by neglected of proper or fat percentages, or by neglected of proper

pedigrees to attain large average records or fat percentages, or hy neglect of proper feed and care in the carly life of the animal, are led to the mating of animals of other than those of large size, and pos-sessing the milk and beef form. Neither the breads of the Channel Islands nor the Armotalz. Ayrshire bre remotely.

F. L. HOUGHTON



By Wm. Remain, Sr. Since the their publication of "Buc-costful Farming, wientific arri-sultures has made result deviace, this original work, adding to it much valuable information, within has been and investigations in the practical science of arrivations. The book is now work that it is the only practical work on Catlian agricultures that is howed boots after a strain of the theory of the theory of the science of the science of arrivation of the science theory of the science of the science of the science of a science of the science of th will carry out the easily-followed scien-tific principles they may reasonably ex-pect an increase in profits and a saving of labor, which will add pleasure and zest to their daily duties. **PRICE \$1.50, POSTPAID**

Book Department, The Canadian Dairyman and Farming World PETERBORO, ONT.

quoted at \$20 per ton, and shorts at \$25.-J. C. S.

Auro

It is to be regretted that illustrations of typical specimes are not used to illustrations of typical specimes are not used to illus-trate and emphasize this description. Change of environment of this breed not be and an of Holland, js doubt-bour structure or shift change in the bour structure or shift change in the low structure or shift of the shift of the towards a greater finish or refinement. Aside from this natural process, it is every doubtful whether any improvement can be made or should be attempted. The Hol-land type is the result of conturies of as-tinguished these estable in all parts of the world. With it has come the marvellous and profitable production or yield, the

WELLINGTON CO., ONT. BEORA.-The continued dry weather is seriously affecting the root erops. The only remedy seems to be "continued cul-tivation," which some of our farmers are the series of the second of the second continued of the second of the second the second second second second the second second second second second second the second second second second the second second second second second the second second second second second the second second second second second second the second second second second second second second second the second second second second second second second second second the second sec

September 30, 1908

MARKET REVIEW AND FORECAST

Toronto, September 23, 1906.-There is not much change in the general situation. side, but stady, with some improvement in the volume of orders received. Until continue as it is. Call money is in good demand and rates of nirerest are steady.

WHEAT

WHAT The wheat market is higher, and general conditions point to a continuation of pre-sent provide the second second second provide the second second second second the second second second second second the second second second second second the second The wheat market is higher, and general bushel

COARSE GRAINS

COARSE GRAINS The oat market is easier with prices on a lower level. This applies to Toronto, where more are offering. At Montreal the offerings are not large and prices hold entry at the code on the farmer of the start of the second of the farmer er's market they sell at 46 to 45 a hush-el. Te barjery market is also quieter ow-ing to larger receipta. Dealers here quote barly at 56 to 56 outside. On the far-mery market barloy sells at 56 to 56 a side.

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD

READ BY 15,000 PEOPLE WEEKLY

THIS DEPARTMENT is one of the most valuable in the Paper. At a cost of only Two sents a word, you can advertise anything you wish to buy or sell, or situations wanted or

wish to buy or sell, or situations wanted or result. Different constraints of the second second of the the advertisment, and sech initial or a number counts as one word. Minimum cost 25 cents ago insertion. When replies are to be seen to pup betage on the replies to be sent to advertisers COPY must be replies to be sent to advertisers COPY must be replies to be sent to advertisers and insertion. The second second second second may kind will be allowed under this head, thus making a small advertisement as noticeable as a large one.

FARMS FOR SALE

FOR SALE.-489 ACRES, all cultivated, elay land, main road, school, churches, blacksmith hop, and port office within two miles, 120 acres summerfailowed, good frame buildings, Frantford wind-mill and crasher, erected last January; good water. For quice alse, 430, half cash; balance half crop payments, David Morgan, Oxforw, Sask. E-157

MISCELLANEOUS ADVERTISEMENTS

WANTED--Persons to grow mushrooms for us during fall and winter months. Waste space in cellar or outhouse can be made to yield fifteen to twenty-fire dollars per week. Send for illustrated booklet. Montreal Supply Co., Montreal. E-107

YOUNG MAN, slightly lame, accustomed to farming, good milker, desiree place on farm. Small wages, Box "O," Cana-dian Dairyman. E-19-7

PARIS PLOW COMPANY, Paris, Ont., Manufacturers of Manure Spreaders, Ensilage Cutters and Plows. Write for Prices and catalogues. Mention The Canadian Dairyman and Parming World.

STRONG, LIGHT AND SERVICEABLE lad-ders for fruit picking or other work on the farm. Berlin Woodenware Co., Ber-lin, Ont.

COVER YOUR BARNS with metal shingles and sidings, supplied by the Galt Art Metal Co., Galt. Ont.

FEEDS

Under a good demand prices for bran and shc.ts continue high. Some of the small-er millers are doing more business and er millers are doing more business and supplies may be more pleatiful shortly, though the dry weakher will tend to in-ba bran is quoted 821 to 821; shorts, 855 per ton, in bags unted 821 to 822; shorts, 855 per ton, in bags in car lets. Fran is quoted here at 820 to 831, and shorts at 821 to 824 per ton in bags outside. The corn market shows no change. Prices rule high with little business doing.

SEEDS

SEEDS What little change there is in the seed situation points to lower prices for alsie. The European crop is reported good, with no active demand from that quarter for Canadian. The Ontario corp is yielding well. Quotations at outside points are. Alsike, 86 to 87.50; timothy, 81.35 to 81.75, and red clover \$5 to 85.50 a bunket as to constitu quality.

HAY AND STRAW

The hay market has rule d steady all week and there is little change to report. At Montreal new hay is selling better than old and though supples are increas-ing the good local demand helps to main-lain prices. Baled hay in car lots on 97 to \$1526 at on. Baled though a solution of the start of the selling better at the increase of the selling better onto farmers' market receipts of hay have at the end of the week. Hay sells at \$12 to \$14, start with bundles at \$15 to \$14, start with \$15 to \$14, start with \$15 to \$15, start with bundles at \$15 to \$15, start with \$15, start w

POTATOES AND REANS

POTATOES AND REANS The potato market is reported active at Montreal at 70e to 75e a bag in car lots. There is a steady demand here under nor-mal receipts, Ontario grown being quoted at 65e to 76e in car lots. On the farmers' market potatoes bring 75e to 81 a bag. The beam market shows ittle change. A better demand is reported at Montreal, Ontario beams being sold these at 81.53 Control beam being sold these at 91.55 Kent County is reported to be light with the quality good. EGGS AND POULTRY More absense these is to the sense market at the start of the sense the se

EGGS AND POULTRY What change there is in the egg mar-ket is towards higher prices. Receipts are beginning to fail off somewhat. At Mon-treal a good trade is doing in eggs at 326 for selects and 226 for 30. I in case lots. Here the market is stronger at 326 to 326 on the armorry reals.

a dozen in case lots, and 25c to 25c on the farmers' market. Poultry receipts here have been heavy and prices have taken a doro. In a job-bing way spring chickens, lite weight, sell at 9c to 10c; fort, for 0c 6c; duck, so to 10c, and utrkeys, 15c to 16c a. Ih, dressed 2c a. Ib higher. On the farmers' market dressed chickens sell at 16c to 15c; fordia. lie to 12c: ducks, 14c to 15c, and young turkeys 25c a 1b.

FRUIT

<text><text><text><text><text> Shippers have been receiving very satis



Your Money Works for You

when it is deposited in this Bank, earning Interest which is added to the Principal every 3 months-to itself earn Interest.

One Dollar starts an account, and Deposits of \$1 and upward are received. Money may be withdrawn at any time without notice. 48

One of the 80 Branches of this Bank is convenient to you. Your account is invited.

tomatoes, he to 20c a basket, and apple state to 22.0 a ball. DAIRY PRODUCTS The dry washer is certainly decreasing these receipts and this will be more automatically and the state and motionable later on. This situation has been receipts and this will be more automatical and the state and motionable later on. This situation has another on the state and motionable later on the state and motion of the state of the state and motion of the state and the state and the motion of the state and the state and the motion of the state and the state and the motion of the state and the state and the motion of the state and the state and the motion of the state and the state and the motion of the state and the motion of the state and the motion of the

week ago. The market is a little on the quiet side as buyers are loth to buy in large quantities at present figures. At fourtural receipts fell off last week nar-responding weik of fast year. It looks, herefore, as if there were money in cheese even at present high prices. Quota-ions at the end of the week were lower a the local boards, sales being reported strong, large cheese are quoted at 15% to 15% and twins at 15% to 15% a 1b. The butter market continues frm though the scoret demand is quiet, exporters re-lusing to pay the prices atked by cream-ing the price market by the grant of the scoret at the function of the score than at this time last year, the falling off in the male has strengthened prices. At Mon-treal the finate creamery is quoted at the to 25% and dairy takes allow at 25% to 25% a 1b. Here there are no changes in quotations, creamery, prints being quoted at 25% to 25%, bit, for the to 25% and dairy take at 21% to 25%, and at the 15% dairy prices at 25%, dairy prints at lie to 25% and dairy take at 21% to 25%, and the to 25%, and dairy take at 21% to 25% at 25% to 15% at 25% the at 25% to 25% at 25% the to 25% and dairy take at 21% to 25% at 25% to 25% as the consent of a 25% to 25% at 25% to 25% as the consent of a 25% to 25% at 25% to 25% at 25% the to 25% and dairy take at 25% to 25% at 25% to 25% as the consent of a 25% to 25% at 25% to 25 prints sell at 24c to 28c and creamery at 28c to 30c a 1b.

UNION STOCK YARDS HORSE EXCHANGE

The horse market continues to show market continues to show a settive demand. There all how is a more for lumber horses this fail as very listle imber will be cut, lumbermen having enough on hand to do for a year or two. Another market will have to be found take more this eason and a good feward is likely to develop from that quarter. There was a brisker domand at the Horse Exchange and lases last week and though prices are lower than a week and shough prices are lower than a week and though prices, 8140 to 8300, driver, 8135 to 8300, and servicenby sound horses, 830 to 840 each.

test each, the bulk selling at \$40 to \$00 each. Receipts of veal calves continue moder-inter and the marks is steady at \$5 to \$50, purposes are poor scraggr animals and witherer. Veals are quoted at Buffalo as aritre and steady. In the steady of the steady of the steady are and steady. In the steady of the steady of the steady over and easier. The 30 day quarantine on sheep going into the United States will got of entity the Buffalo lamb trade upon and easier. The 30 day quarantine on sheep going into the United States will got of entity the Buffalo lamb trade days at \$375; rams, at \$4 to \$455 and unbe at \$455 to \$440 a ext. Lamba are, Lag receipts are light and the market with the bacom market continues steady. The Trade Bulletin's London cable of Supres-tion steady at last receive the stead to review from the continent today and to uport the last Tree web. Canadita upon by to 64 the. UNION STOCK YARDS PRICES

UNION STOCK YARDS PRICES

UNION STOCK YARDS PRICES West To-voito, Ont., Sept. 3. - The run at the Union Btock Yards this morning was light, only 39 eary being backfold, compris-cairos. The market was bricker than last week and higher prices were paid for choice butchers' stock. The export mar-hister monies, and the stock of the stock that were also butchers' each the stock in the monies with the stock of the stock at \$44. About \$4 a cext was the ruling price for good butchers' each is many soid at \$450 a good deal lower but the quality was not good. Stone telebo butchers' soid at \$450



Removes Bursal Enlargements, Thickened, Swollen Tissues, Curts, Filder Crendons, Koreness Curse Spavin Lameness, Allary Pain Does not Bilister, remove the hait or lay the horre up. 45,00 bottle, doilyeared. Book ID Free. ABSORDINKS, JR., (mankindi, bottle, doilyearoutin, scienta, Gon

W. F. YOUNG, P.O.F., 123 Menmouth St., Springfield, Mass LYMAN, SONS & CO., Santral, Tempfield, Mass

Calves sold well at \$3 to \$4.50 a cwt First feeders sold at \$3 to \$4.50 a cwt First feeders sold at \$3.75 for export wees. Lambs sold at \$4 to \$4.25 and are likely to go lower. Hogs sold at \$6.75 a cwt and are quoted at \$6.50 f.o.b.-J. W. W.

THIS WEEK'S HOG PRICES

The William Davies Co., Toronto, will pay 86.50 a cwt f.o.b., at country points for bacon hogs this week. This is a drop of 25c from their quotations for last week

MONTREAL HOG MARKET

MONTREAL HOG MARKET Montreal, Savirday, Beyt, 25, 1930.-The market for 11.0 hogs here is decidedly firmer, with prices somewhat advanced over those current a week ago. There week, which sold freely at about \$7.50 Dressed hogs halo were highed of ears. Dressed hogs halo were highed of ears. and fresh-killed abattoir stock sold at \$10.50 per cwt.

EXPORT BUTTER AND CHEESE

813.9 per cett.
EXPORT BUTTER AND CHEESE
Montreal, Saturday, September 56, 198.-The market for these has eased off con-iderably during the week owing to lack the market for these has eased off con-iderably during the week owing to lack the second second second second second advanced to the second second second advanced second second second second training second second second second second advanced second second second second second second advanced second second second second second advanced second second second second second advanced second second second second second as a second second second second second second period second second second second second second as second second second second second second second as second second second second second second second period second second second second second second as second period second second second second second second as second second

ket. The shipments have been light this week owing to the fact that there have been practically no steamers sating from Mon-treal. The dry weather and consequent numerous forces if res have made the weather so thick about the 8t. Lawrance that it has been practically impossible for the statement to more up or don, and days late in sating, and those that should have gone this weekend will not get away until next week. until next week

The market for butter is decidedly firm er and prices have advanced, owing to the increased demand from local dealers for cold storage purposes, and also on ac-count of the increased enquiry from the other side, though it has not resulted in much business.

Country markets are auvailed and are ruling this week at 24% to 25c a lb, an advance of over %c a lb over the week

MONTREAL PRODUCE TRADE.

MONTREAL PRODUCE TRADE. Initian-Prices of butter have been marked up this week owing to the ad-vance in the country, and dealers are prints with solids at 5c ites. The second second second set 326 to 38c. Dairy is saling at 12c to 32c. The second second set 325 to 38c. Dairy is saling at 12c to 32c. The second second set 325 to 38c. Dairy is saling at 12c to 32c. The second second set 325 to 38c. Dairy is saling at 12c to 32c. The second second set 325 to 38c. Dairy is saling at 12c to 32c. The second second second set 325 to 38c. Dairy is saling at 12c to 32c. The second second second second second second second second mark second A rates

Tuttle's Elixin und world. Tested many years, never falls cure be possible. \$100 reward if it do For lameness, curb, splint, spavin, ringbone, swellings.



rfort h TUTTLE'S ELIXIR CO., 131 Beverly St., Boston, M Mentreals H A. Tuttie, Mgr., 02 St. Cabriel St.

Cheese.—TThere is very little ot say about cheese. Prices for the local trade keep fairly steady and rult at 12% to 14c according to quality.

AYRSHIRE NEWS

The Ganadian Dairyman and Parming World is the official organ of The Ganadian Ayrshire Breeders' Association, all of whose members are raders of the paper. Members of the Association are invited to send items of interest to Ayrshire breeders for publication in this col-uma. Autort

Concernational and the second when two more warken to the halo cal-when two more warken to the halo cal-out of Lady Stewart, who gave 2015 hs. O the start start of Mose Creek; a four year old calves to Mr. Hagaraty of Million A and calves to Mr. Hagaraty of Million, and Alex. Million of Mose Creek; a four year old calves to Mr. Hagaraty of Million, and Alex. Million of Mose Creek; a full of Alexan belliord, Mr. Hums reports that purchas-belliord, Mr. Hums reports that purchas-greater interest than ever before in the milliperducing qualities of the stock they purchase. Intending purchasers almost in fields in the mill records of the stock of the animals they pur-chase are. chase are.

10,000 POUNDS OF MILK PER COW

18,000 POUNDS OF MILK PER COW. One of the greatest herds of Arrshire cattle in Great Britain is owned by Mr. Thomas Clement, a member of the well-known firm that has become noted as importers of butter and cheese. Mr. Clement has been in Canada recently and had a chat is Montreal with a represen-ative of The Dairyman and Farming World. "My herd of 75 Ayrshire cattle averaged over 10,000 hs. of milk per cow." said Mr. Clements. "All the animals in the herd did not give that, but where first milkings have an output the star-ferst milking. I have asticned that they

The calculation of the section of the state of the section of the

GOSSIP

USE ABSORBINE ON YOUR BLEMISHED STOCK.

STOCK. Mr. M. M. Bell, Jameville, Va., writes under date of December 18, 1937: "Absor-bile is the finest thing that I have ever used. I had a dwo year old colt trained the past season. She came home with a bunch on her ankle that I hated to look at. After writing to you and using the Absorbine as you advised me, there is no the colt."

FOR SALE The colt." Now is the time to get your stock in proper condition for the search's work for the sale. A lame blamshied horse can be without laying up the horse. No blatch no hair gone. Aborbline is mild pakin, remrees bunches. 82 per bottle at

all druggists or express prepaid up rew all druggists or express propaid upon re-ceipt of price. Manufactured only by W. F. Young, P. D. F., 125 Monmouth street, Springfield, Mass. Canadian agency, Ly-man, Sons and Co., 300 St. Paul street, Montreal, Quebec, Causaa.

USEFUL ROOFING INFORMATION

USEFUL ROOFING INFORMATION Anyone who is considering the roofing proposition should secure the booklet on Amatite which has just been published. This booklet is full of practical informa-tion. It gives pointers that will enable you to know what's what in the roofing line. This booklet is published by the oldest line. This booklet is published by the oldest roofing manufacturers in the country and may be relied upon for accuracy. It is mailed free to anyone sending their name and address. A sample of Amatic, with its mineral surface, which has made such success as a lasting protection against te weather, is also sent with the book-t. Both are free and are well worth specing.

Address nearest office of the Paterson Manufacturing Co., Limited, Toronto, Mon-treal, Winnipeg. St John, N. B., Halifax, N. S.

THE GIFFORD-WOOD CO.

THE GIFFORD-WOOD CO. The GiffordWood Co., manufacturers et elevating and conveying machinery and jee tools have recently issued a new cata-logue of ice tools and ice-haading ma-chinery. As many of those enraged in the ice builtes are also interested in the coal up in a very attractive style and is pro-fusely illustrated, should be of interest to all engaged in the fos and coal buil-ness. This elaborate catalogue may be ob-tioned free by writing to The Gifford Canadian Dairyman and Farming World.

DON JERSEY HERD



BURNSIDE AYRSHIRES

BUMNSIDE AYMSHIRES Champion Herd of Canads, Champion Herd at National Show in Chicago, 1907. The home of Imported Burly db, of Acadambain-Iergy-from motils. Sit: corve and hefers have already qualified in the Record of Performance test with good records of milk and fat. Herd headed by Bar-checkie King Own. inpr. Importe and Canadian brd stock of all ages for sat. R. P. NESS. B31509

FOR SALE

HUME FARM AYRSHIRES

HUBE FARM A restinct Oar 1960 inportaion has landed, eso-sisting in females of 3 year olds, if year olds, yearings and caives, finama record up to 1,169 caives from our own. Record of Marci caives from our own. Record of Marci caives from our own. Record of Marci coves and others. Females, any desired age, either (inn, or homs-bref. domas and see our hard. FRome in residence. Hoards Eviation, OT.B. ALEX. HUME & CO.,

STONEYCROFT STOCK FARM Harold M. Morgan, prop. Ste. Anne da Bellevue. Choice young Ayrahira Hulls and Heifers for sale. Yorkshire pigs from Imported Sires and Dams, February and March litters. Largest selection. High-est quality. Write for prices.

E 5-26-09 E. W. BJORKELAND, Manager.

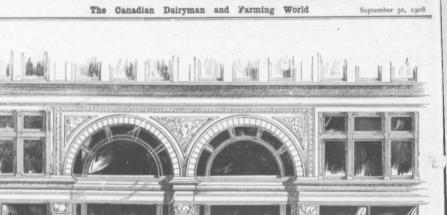


THE HOMESTEAD HERD OF ABERDEEN ANGUS CATTLE... Present offerings: B months old bull, sire a Toronto cham-pion, also cows and beifers of the choic-est breeding. Must be sold to make room, at prices that will surprise you. WM. ISCHE, Proprietor

ville, Ont 8.11

LOCHABAR HOME FARM Offers some high-class Shorthorn. Bulls, Leicester Rams and Ewes, sired by Yknobs, "winner at St. Louis World's Pair, also at Porland, Cross" is also her leading exhibitions, once Berkshires, fall ages. Write for prices.

0-4-7-09



20

IF YOU LIVED IN TORONTO

you would follow the crowd to Simpson's and do most of your shopping here. Then why not do it anyhow? Our Catalogue brings the store to you and gives you every advantage of Toronto goods at Toronto prices. With it you can sit down in your own home and do your shopping by mail with just as great delight and satisfaction as if you visited the store personally. Each order is given to an experienced shopper, who selects and buys the article for you. She represents you, and is paid to please you. In most cases, your goods are shipped same day your order is received.

TORONTO IS HEADQUARTERS FOR STYLE

and this store keeps sharp step with the latest fashion ideas of London and Paris. Your local merchant must content himself largely with staple goods that won't spoil by growing old, while we are constantly introducing new styles and novelties. In buying from us your orders are filled from exactly the same stocks as are shown over our counters to the most discriminating shopping public in Canada, and only such goods as we can thoroughly recommend for quality and satisfaction.

Send at once for our new Catalogue and compare our prices with what you are accustomed to pay. We prepay freight or express charges on all orders of \$25.00 or over.



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