

FARM AND DAIRY



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You do not need to have the knowledge of an expert machinist to handle your cream separator satisfactorily IF YOU OWN A "SIMPLEX." The "Simplex" is constructed on simple lines throughout, and with the fewest possible number of parts. There is no complication of parts to be constantly getting out of order, and which requires an expert to locate and remedy the trouble. Parts which require to be taken out occasionally and cleaned are so constructed that they cannot possibly be put together wrongly. The gearing is as simple as it is possible to make it. There are only two pairs of gears, whereas other makes of machines contain three and even four pairs. Each additional pair of gears means just so much extra friction, which makes the machine turn that much harder. The higher speed at which other machines have to run also greatly increases the power necessary to drive them.

If you want an easy running machine, one which is strong and durable, which does not cause you constant trouble by some of the parts getting out of order, and which at the same time takes all the cream out of the milk and does it quickly too, the machine for you to buy is a "Simplex."

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WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS



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

November 10, 1910.

National Dairy Show at Chicago

So far as the 450 cattle of the six dairy breeds in the stalls at the fifth annual National Dairy Show, Chic-ago, were concerned, the show was a quality show. Ayrshires, Holsteins, Jerseys, Guernseys, Brown Swiss and Dutch Belted cattle, each had their were no Canadian exhibits. W. W. Ballantyne, Stratford, Ont., one of our well known expert judges, placed Ayrshire awards.

The educational feature was the key note of the Dairy Show throughout. The wide field touched by the dairy inductry is evident by mere reference some of the contributors to this iry show. These were breeders of dairy show. pedigreed dairy cattle; the United states De Detartment of Agriculture the Illinoi and Dairy Commis-sion; the Chicage Health Department, the Chicage Public Schools; the Chic-age United Charities; makers of milk for createry and bottled trade, or-dinary and certified; and manufac-turers of all the accessories of dairy farms, dairies, mill: routes and cream-

PRACTICAL EXHIBITIONS

Interest and education were strong by mingled in the practical exhibitions of the Chicago health Department. An efficient statement of the support given the show by the Chicago Health

Bopartment follows: Babies fed upon milk which has heen properly kept and properly preremonstrations of the proper method of preparing milk for a baby Demonstration of the proper method of keeping milk. Scores of milkmen a Chicago. Scores of country dairy-nen. These scores show the cleanlin-ss of milk producers. Charts and men. of Charts and ⁴⁰⁸ of usik producers. Charts and unaps shaving methods of producing milk; also pictures abowing the de-velopment of flues and their life hab-its. A branch of the city laboratory in full operation, examining Chicago milk as found on the streets.

SOME OF THE ATTRACTIONS

Attractions to amuse the casual visitor were staged in the judging arena located in the centre of the Coliseum where the show was held. Each afternoon and evening parades of prize winning cattle were given, when prize winning cattle were given, when the ring was not in use for judging, ani at night a "calf scamper" prov-ed to be a delight to spectators. A unmber of calves representing the different breeds on exhibition were turned into the ring and left to their own capers. The world's champion three-variable hutter you, Giuera. own capers. The world's champion three-year-old butter cow, a Guern-sey, 'Dairy Maid of Pinchurst', stood throughout the week of the show about throughout the week of the show in one corner of the arens. Her own-er, it is reported, refused during the show the sensational offer of \$10,000 for this cow. A grade Jersey cow, having a record of 700 pounds of but-ter in one year was a feature in an-other corner of the arena. These two cows, as the Breeders' Gazette well puts it were educational featureputs it, were educational features of the mcst persistent and convincing appeal.

THE ATTENDANCE

Although the weather was propitious and the show deserving of the most generous patronage, the attendance and the show deserving of the most generous patronage, the attendance was not all that could have been de-sired. The show as a whole was the best conducted and staged the most pleasing exhibits of any yot held by the Association. The attendance if not heavy was sufficient to be notice-able about the hotels even if not in the Chicaco newspapers. It has alable about the hotels even if not in the Chicago newspapers. It has al-ways been difficult to interest the city public in the National Dairy Show owing Largely to a lack of support from the Chicago papers. Breeders of pedigree cattle rallied when works support of the show by hear works and by bechts on the floor of their work, and by bechts on the floor of their

house near the judging areana. which were headquarters for adherents of their respective breeds

Winter Fair Seed Department

T. G. Raynor, Seed Branch, Ottawa Less than one month and the Winter Fair at Guelph will be in full blast again ; there is now but little time for farmers who intend to make an ex-hibit of zeeds to make their entries. November 12th is the last day. An even larger exhibit of seeds than ever before should be shown this year. It has been a gread wave for the

It has been a good year for the pro-The provide a good year for the pro-duction of most grain crops and samp-les of seed generally are good. The prize list at Guelph is a gen-erous one, there being, \$6, \$4, \$3 and

\$1 in the general classes, and in the Uanadian Seed Growers' Association even Letter prizes are offered in some sections. Members of the C.S.G.A sections. Members of the C.S.G.A. should not forget that they are eligible to compete in the general classes as well as in the C.S.G.A. class. It is expected that a better arrange-

ment for showing the seeds to advan-tage will be made this year and that every precaution will be made to pre-vent the grain exhibited from getting mixed.

Items of Interest

The Toronto Medical Health Officer The Toronto Medical Health Officer as recommended that all milk not up to the standard of certified milk or scientifically pastourized be heated to the boiling point in the homes before being used. Eleven cases of typhoid fever in the City have recently Leen traced back to one dairy

is officially announced that the C.P.R. has decided to build four new steamers for a fast direct steamship service between Nova Scotia and Bos ton and New York. These vessels will ton and New York. These vessels will be larger, faster, and stronger than any at present engaged on the North Atlantic Coast steamship traffic.

An outbreak of rabies is reported from the vicinity of Tecumseh, Ont. A cow bitten by a mad dog some time ago has developed a virulent case of the dread disease and had to be de-stroyed. The local authorities are much concerned at the failure in observing the muzzling law

The annual report of the Minister The annual report of the animater of Justice shows that crime, like everything else in Canada, is on the in crease though apparently the growth is much slower than in other and bet-ter things. There were 16,350 charges and 11,400 convictions for indictable offerupes diving the way ended Sec. offences during the year ended Sep-tember 30, 1909, an increase of 110 charges and 115 convictions during the year.

the year. Last year the four largest occupa-tions in Canada employed the follow-ag numeers: Agriculture, 716,03; agnometers: 389,873; domestic, 389,873; domessa, 389,873; domessa, station, 234,236. Bemanufacturing, 389,873 277,.... ;transportation, sides these the professional class num oer 94,059, mining employed 36,908 the fisheries gave work to 25,054, the 36,908, forest and lumber industry employed forest and lumber industry employed [6,213, and a miscellary of occupa-tions engaged 4,413. In considering matters of trade, the fact must be borne in mind that agriculture is fo-day, and is likely for ensain for all time, the chief industry of Can-ada, and cannot be ignored.

In spite of fickle weather, which tended to mar the attendance at the Canadian National Apple Show, Van-? conver, during the first two days of the show, the attendance is reported to have been phenomenal. Kelowna, in fertile Okanagon Valley won the in fortule Okanagon Valley won the grand sweep and stood pre-eminent in the exhibition. Quebec exhibits of good hard sweet apples were ad-mired by visitors. The Untario fruit, Etons presented a d definition cond-in color, though uniform in size, and excited the admiration of all. The show is said to have been the largest. ever held on the American continent. lar presentation of the results of their tools presented a dazanig difference work, and by booths on the floor of the in color, though uniform in size, and their banquets. The Jerrey, Guernsey, Holtstein and Ayr. shew is said to have been the larges shire breeders each kept official open ever held on the American continent.

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No. 45

ONFARIO AND THE APPLE - A MOST PROFITABLE BUSINESS J. W. Crow, B.S.A., Professor of Pomology, O.A.C.

The Second Article by Prof. Crow. Apples as Protitable as Peaches. How the Smaller Growers of Apples may Solve the Great Problems that Confront Them.

THE tone of the preceding article in Farm and Dairy, October 20, might lead an unthinking person to conclude that apple egrowing in the Province of Untario is an unsafe and an undesirable commercial proposition. As a matter of fact, nc conclusion could be farther from the truth. The apple industry offers to-day a better opportunity for money making than ever before. While it is true that conditions previously referred to have resulted in a general depression of the industry, it is also true that there has been gradually brought about a condition of affairs unprecedented in our history. The vast increase in our consuming population and the remarkable extension of our shipping facilities, both boat and rail, have placed an almost unlimited market within our easy reach, and at the present time demand is vastly greater than supply

It is quite true that in recent years there have Leen seasons of low prices, and it is also doubtless true that within the next few years similar per-* iods will recur. It is a significant fact, however, and one which cannot be too forcibly brought to the attention of present and prospective fruit growers, that at no time within the last 10 years have strictly first-class apples been over plentiful; nor is it at all possible, -- in fact, one might say it is almost impossible,---that such a condition will arise for many years to come.

DECREASE IN QUANTITY

As has already been stated, the proportion cf strictly first-class apples and, likewise, the actual quantity of apples of first grade have decreased within the last 15 years. The decrease has been so marked one would seem to be entirely safe in predicting that a number of years must elapse before the production of high-grade fruit begins to equal the demand for it. Low prices, when they come, as they are certain to do, will be caused, not by a surplus of high-grade fruit, but Ly the placing on the market of large quantities of second-grade and inferior stock. Low-grade fruit when marketed in considerable quantity does affect more or less seriously the selling price of best grades. As a general rule, however, there is practically no difficulty experienced in disposing of fruit of high grade. Growers who will give the necessary attention and care to their orchards are sure of a market, provided they grow sufficient quantity to attract buyers, or to enable them to place their own product on the market independently.

APPLES AS PROFITABLE AS PEACHES

I deem it distinctly a misfortune that so many of our best growers decline to permit the publication of the returns they are receiving and the profits they are making in apple growing. 1 have been fortunate enough, however, to have been admitted into the confidence of a number of growers, and I have no hesitation in saying that apple growing in the Province of Ontario when conducted by intelligent, thorough, business men pays to-day equally as well as peach growing.

We have been accustomed for many years to regard peach growing as the most profitable Lranch of the fruit industry. There may have been reason for this opinion in the past, but now the above statement will stand the closest scrutiny. I am quite convinced that an orchard of apples is fully as good financially as a peach orchard, and I can name more than one apple



Trees too Thick to Produce High Class Fruit

grower who would not exchange his apples, acre for acre, for the best peach orchard in the famous Niagara fruit belt.

EXTENSIVE PLANTING JUSTIFIED

The situation in Ontario to-day is one which will amply justify the planting of extensive orchards by men who have sufficient capital behind them. I am continually in receipt of letters from merchants and professional men concerning the opportunities for investment in apple growing. No man with a keen eye for profits can fail to be attracted by a study of the opportunities offered in apple production to-day.

In general, the most difficult phase of the sub-



Trees too Thick and Badly Mutilated

If the third that the set of the

ject presenting itself at present is the problem of marketing. A man of means going into the business on a fairly extensive scale would have little difficulty on this score. All that is necessary is to grow and pack first-class fruit in quantities not less than carloads.

PROBLEM FOR SMALL GROWERS

The problem for the small grower, on the other hand, is much more complicated. For him the only solution seems to be cooperative selling. At present a small producer, if he is isolated, cannot attract a buyer to his district. If he is situated in a large producing section he will not, of ccurse find it so difficult to dispese of his crop, but even in such sections cooperative marketing has very considerable advantages for the small grower.

I am quite aware that many persons will be inclined to bring up the fact that co-operative selling has not in the past been so uniformly successful as could be desired. It is true that some of cur associations have become noted for the quality of their packs and the businesslike administration of their organizations. On the other hand, it is also unfortunately true that a large number of our associations have failed entirely, and several others seem at present to be going backward instead of forward. None of these facts can, however, be taken as reflecting on the correctness of the principle involved.

COOPERATIVE MARKETING

True cooperation is the remedy for the present depressed condition of affairs. It is rather a remarkable fact that up to the present time we in Ontario have made very little use of the results secured by other countries in cooperative marketing. Associations have come into existence here and there, and after a short period of greater or less activity have disappeared and quit the business. Various reasons can be assigned for the many failures. The ordinary joint-stock plan of organization, in which the stock is all held by a few individuals, is not cooperative in principle and has been the direct cause of more than one failure among our associations. Limited liability has been another stumbling block. Older countries adopted unlimited liability many years ago, finding it truly cooperative in principle and perfectly satisfactory in operation.

LARGE MEMBERSHIP UNSAFE AT START

Another fruitful cause of disappointment in cooperative work has been the practice of taking in a large number of members at the start. Experience shows that it is much safer to begin with a small number of first-class men. If five or six careful, thorough fruit growers will make up their minds to stick together in spite of any opposition that may be offered by buyers or others, and if they will at the beginning establish definite, positive rules concerning spraying, cultivating, grading and packing, they will have no difficulty in disposing of their crop, or in securing additions to their number as the results of their work become known throughout their district.

A few good growers banding together in this way will get higher prices than if they were handling the crop from a larger number of more or less neglected orchards. The object lesson by which their neighbors will profit and which serves

to attract them into the business is the high price secured. If they can once be brought to realize that good apoles properly grown, graided, and packed are actually saleable at high figures, they will be much nore likely to give the requisite care to their orchards than if they had been admitted into the association at the beginning. In the latter case, the association would have on its hands, a large quantity of second-grade stock and prices throughout the association would rule lew in consequence. This would tend to dissatisfy the men in the association and would, of course, have the additional effect of keeping others from joining.

What Care Does for a Binder

Rust and neglect, not legitimate wear, cause many pieces of farm machinery to be sent to the scrap heap long before they have served their proper time. Binders as they are ordinarily known are not used save for a comparatively short time. Notwithstanding the intricacy of their mechanism and their initial high cost. binders in general receive only ordinary care and in many cases flagrant abuse. That a binder of reliable construction will last and render satisfactory service if given proper care throughout a long series of years is evidenced in the case of a Peter Hamilton Binder that has been used by Wm. T. Payne of Peterboro Co., Ont., for 19 years and is still serviceable and is good for harvesting another crop. Some of its work last year is illustrated on this page.

"My implements always get good care and so far as the binder is concerned it is nearly always housed at night and kept dry?" said Mr. Payne as he handed the photo, from which the illustration is reproduced, to an editor of Farm and Dairy. "Plenty of oil is the cheapest machinery we have. I never stint it and I give such machinery as the binder pienty. In the case of our old binder, any depreciation in its usefulness is due alone te natural wear, not to any rusting out."

The Colt Throughout its First Winter

T. R. James, Middlesex Co., Ont.

After the colt is weaned it should be allowed to run in a box stall with plenty of bedding. If tied up in a stall there is danger of something going wrong with its legs. Exercise is of prime importance, and the celts should be allowed to run in a field or yard every fine day, morning and afternoon, being brought in to the stable for its three feeds a day. Plenty of good hay can be fed, but care must be taken to feed only as much hay or grain as the colt will eat up clean. Abcut four pounds of oats with one pound of bran a day is a fair average for the winter. Start with considerably less than this and gradually increase the amount. An abundance of good water shculd be obtainable at all times whether the colt is inside or out.

When two colts are kept loose in the same box stall, it is advisable to tie and feed them separately at meal time, as one is sure, sooner or later, to become the master and get the larger share. Some roots added to the ration will keep the colts in better growing condition. Grooming every day will have a beneficial effect en their general thriftiness, and make them look and feel tenfold better when turned out to pasture in the spring. Lice are a great menace to young colts, and every attention should be paid to see that they are kept free from these pests.

A colt will usually live if allowed to run arcund a straw stack all winter and forage for himself, but there is too much good money in a draft horse for one to be content with giving it this kind ef attention. Give the colt every chance to grow and thrive during the first winter of its life, and the effects will be evident all through his later pears.

Common Unsoundnesses of the Horse*

Dr. A. S. Alexander, Madison, Wis.

The student should acquire a fair degree of skill in detecting the more common and serious unsoundnesses of horses. The diseases and unsoundnesses should, as follows, be studied according to each part involved :

HERD.—"Poll evil" is an enlargement of the poll, containing or discharging pus; due to bruise; not hereditary; a serious unsoundness; often difficult to cure; recovered case may leave neck permanently stiff. Look for sears.

Evrs.—Test for blindness. Pupil of the eye should contract in the light. Cloudiness or opacity denote "mono Llindness" (periodic ophthalmia) or cataract. Speeks may be due to injuries; unimportant if the sight is not impaired thereby.

EARS.—Excessive mobility may indicate impaired vision, viciousness, or nervousness; lack of mobility may indicate deafness, or tetanus (lock jaw). Base cf ear sometimes seat of troublesome discharging fistula.

MUZZLE.—Nostrils should be free from discharge of chronic entarrh or glanders. Sometimes pluggeed with sponge to bide "roaring.", Lining membrane should be healthy pink in color; free from ulcers, or purple spets or bad smelling discharge. Lips not torn; free from chronic sores from bit at angle of mouth.

TEETH .- Examine for diseased, missing or pro-



A Good Crep of Buckwheat, Well Harvested

Not many hinders can do much better work, if as good, as that shown in this illustration shows some of the work done by a Poter Hamilton binder in its 19th year of use on Peterboro County farms. -Photo by W. T. Payne.

jecting molars; overlapping incisors ("parret mouth"); "bishopping" (artificial marking of the incisor teeth to alter indications of age) and under-shot jaw.

TONGUE.—See that the tongue is intact and healthy. Part of it may be missing, or mutilations present. See that floor of meuth is sound where bit rests.

UNDER JAW:-Look for discharging, or plugged fistula of salivary duct or one connecting with a molar tooth root; abscesses and tumors.

NECK.-Brcken crest in stallions; sores; skin disease; watch for artificially "braided in" mane.

WITHERS.-Fistula of the withers acute, chronic or healed; collar sores.

SHOULDER.-Collar Loils; fibroid tumors from brining; "sweeney;" fistula or abscess.

ELBOW .-- "Shoe boil," from bruising of point of elbew.

KNEE.—Scars from "broken knee," due to falling; puffs; "buck knee" (bent forward); "calf knee" (bent backward); high splint; capped knee.

Cannons.—Splints are abnorwal bony growths ied at the sides of the cannon bones where the small aphint bones (metacarpals in front, metatarsals in hind leg) overlie the large cannon bones. They are objectionable, may cause lameness when forming, are often an indication of light bone, but ordinarily should not be deemed to constitute hereditary unsoundness. If found on all legs, of large size and associated

*An extract from a recent bulletin, from the University of Wisconsin, entitled Draft Horse Judging. November 10, 1910.

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with other bony growths (exostoses) they may indicate a hereditary tendency to such bony growths (bony diathesis) and the animal should

"vjected for breeding purposes. Examine back tendons for thickening of "bowed" condition. In examining hores having hairy legs search for evidences of grease and grease heel, such as cld scars, fissures, grape-like growths or discharge having bad odor; also for "scratches."

FETLOCKS.—Seat of puffs (wind galls); Interfering sores: "knuckling" or "cocked" ankles; grease, grease heel and scratches. Examinejust above or below for scars of "unnerving" (reurotemy).

PASTERNS.-Seat of ringLones; a serious, hereditary unsoundness. These bony growths are

the upper, middle or lower portions of the pastern bones, may partially or wholly encircle the bone, and in aggravated cases, cause lameness and invelve and interfore with the proper action of the fetlock joint above, or with the coffin joint at the lower end of the pastern bone. They give a bulging appearance to the part of the bone affected, have the feel of bone and constitute unsoundness. In work horses ringbone involving a fore pastern is much more serious than ringbond on the hind pastern.

CORONETS. (hoof heads). Sidebones are located under the skin of the coronet, at the quarters. They are due to the lateral cartilages at these parts changing to bone. When present they may be detected as preminent, hard, bony masses protuding above the hoof at the sides of the feet towa the heels and bulging the hoof under the part involved. When sidebones are absent the cartilages can be grasped between the fingers and thumb and moved or bent from side to side as is they were formed of stout rubber. Sidebones are common in draft horses and constitue unsoundness. Horses having wide, flat low heeled hoofs are most subject to this unsoundness. Horses afflicted with sidebones and ringbones should not be used for breeding purposes. "Quittor," a fistulous alscess, is also a common unsoundness of the coronet.

FEET. "Navicular disease" causes hardening and contraction of the hoof and chronic lameness The affected horse "points" his lame fcot forward when standing at rest, starts off lame and "warms out of" lameness. The tendency to the disease is deemed hereditary. It constitutes a grave unsoundness for all purposes. Other common unsoundnesses to be looked for are "tounder", indicated by rings and ridges on the hoof wall, abnormal projection at the toe, convexity at the sole ("dropped sole") and lameness; sand crack (in wall at front of toe); quarter crack (in wall at quarter); ccrns, in the sole at the angle of bar and heel; and "thrush," a diseased condition of the frog characterized by a bad smelling discharge from the cleft.

HIPS. Examine for fractures of the point or shaft of the hip (ilium) indicated by distortion on comparing one hip with the other from the rear: also examine for similar distortion on haunch at side of tail (from fracture of the tuberosity of the ischium).

Tail. The black skin of the under side of thtail and nearby parts often is the seat of cancerous, malanotic or "pigment" tumors in agin; white or grey horses. The disease is incurable and constitutes unsoundness in beth work and breeding horses. Examine end of tail for diseased or unhealed conditions due to docking and e^{2} that the tail is not artificial and "joined on."

STIFLE. Should be free from dropsical swellings and the knee cap (patella) should remain firmly in place during motion.

Hooks. These important joints should be free from "bone spavin", "bog spavin", "thoroughpin", and "curb". Each constitutes an unsounness in both work and breeding animals; tendency to them is considered hereditary. Bone spavin is (Continued on page 10) ð.

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Crushed Gravel and Stone for Highways W. A. McLean, C.E., Engineer of Highways for Ontario

Rock crushers with screen attachments are used for breaking quarry stone, field stone, and for treating gravel. They are being largely pur-chased throughout the Province of Ontario. Under suitable local conditions they are an essential part of a road-making plant. They are subject to severe strain, and in selecting one of these machines, municipal councils should seek strength and economy of operation rather than a low first cost. Portable crushers such as are rated at 100 cubic yards in 10 hours are more economical than

small sizes, as the cost of operation is nearly the same in either case. Crashed quarry or field stone ct reasonable quality is much more durable whan is common

gravel. The comparative life of stone and gravel roads depends on the amount or traffic. Gravel may give gcod service under light traFARM AND DAIRY

it is desirable to separate into three grades.

(1) Such as will pass a 1-inch mesh; (2) such as will pass a 3-inch mesh; (3) tailings.

The "tailings" or coarsest size passing the crusher should be put in the bottom of the road. The 3-inch material should be spread over the tailings. And the 1-inch material can be used as a surface dressing. Care should be taken not to use too much of the surface dressing-merely enough to assist consolidation with a roller.

For crushed gravel the screen should have a wire dust jacket wrapped around part of the 1-inch section of the screen to remove sand, dust and loam, using a %-inch mesh for this purpose.

This fine material should be wasted. When spread

on top of the stone to a depth of two or three

inches as is sometimes done, the effect of screening

is largely lcst, as the fine stuff turns into slush in

wet weather and ruts are commenced. There is

usually plenty of sand and mud on the road with-

out paying for hauling more. Clean stone, well

consolidated by rolling, is what is needed on the roads.—Extract from "Highway Improvement".

Reasons for Practicing Winter Dairying

Parnham Allison, Dundas Co., Ont.

winter dairying in preference to summer dairy-

ing is that we get 50 per cent. more for our milk

which is shipped to Mcntreal in the winter than

we do from the cheese factory in the summer.

Also we get more milk in a year when we prac-

tise winter dairying. Cows that freshen in the

fall give a good flow all winter and when they

My first and greatest reason for practising



Stone Crushing in South Oxford-Coarse Gravel being used to make "Metal" Forty-eight miles of Oxford County, (Ont.) roads have been graded, metalled, and fully tile drained. The metal used consists principally of crushed gravel, procured from local gravel pits. This material is put through a crusher, screened and is received into elevated bins from which it is loaded into wagons with a minimum of labor.

vel. But the heavier the travel, the more favorable becomes the use of broken stone, which is more durable and does not wear and rut so readily as does gravel. It is ordinarily assumed that one load of crushed stone is equal to two loads of gravel.

Crushed and screened gravel very often does not cost any more, on the road, than does gravel in its natural state. This arises in two ways, from reduced cost of teaming and loading.

(1) Coarse or loamy or sandy pits near the work may furnish a supply of gravel suitable for crushing or screening, but not ot for use in its natural state, and in this way the shorter haul and reduced cost of teaming offsets the ccst of crushing.

(2) By elevating the crushed gravel to a bin, wagons may be loaded in three minutes, instead of in a quarter of an hour or 20 minutes, so that teams are not paid for standing in the pit.

Bins should always be used to receive stone from the crusher. Unless this is done, the crusher must frequently be stopped, keeping the entire equipment of men and machinery idle while waiting for empty wagons. For the same reason, if field stone is used, it should

Getting out Rcad Metal to Improve the Roads of Perth Co., Ont. The illustration shows a "gang" at work near St. Mary's, crushing gravel.

be piled in advance of crushing, so that the outfit will not be idle while waiting for loads of stone to come up. By piling stone in the winter when farmers are idle the cost is usually lessened.

A rotary screen should be used on each crusher, elevating the crushed gravel or stone to the screen by means of chain buckets. The size of perforations in the screen will depend on the material being crushed. For ordinary quarry limestone or field stone when a roller is used,

Legin to shrink in yield they are turned out to

pasture and get a fresh start. They are then dry during the fly season when fresh cows naturally slacken in their milk flow.

I prefer winter dairying also because it gives us a better division of labor. We are milking in the winter when we have not much to do and the work is that much lighter in the busy season. I also believe that we can produce milk more cheaply in winter than we do in summer.

Hints on Storing Vegetables

A. H. MacLennan, O.A.C., Guelph

The commonest places for storing vegetables are house cellars, specially constructed houses, barn basements, and outside pits. The place of storage should be cool and moist with good air circulation so as not to allow of excessive collection of moisture. The most desirable temperature for the store room for most vegetatles runs from 32 degrees to 40 degrees above zero. Pits, if used, should be on well-drained land and protected from north and west winds. On the whole pits are unsatisfactory as they entail double work. Pits should run north and south so as to give even distribution of the sun on warm days.

Potatoes keep best at 34 degrees to 38 degrees. The air should be sufficiently moist to prevent shrivelling. If the potatces are paced in bins in the cellars, the bottom and sides of the bin should be boarded. It is not advisable that these bins be more than three or four feet deep. If the air in the store room is too dry, cover the tubers with sand and keep it moist. All potatoes should te sorted thoroughly before finally storing.

CELERY AND CABBAGE

To store celery place it in a cool, damp cellar at 32 degrees to 34 degrees temperature. Plant the heads in good soil, close together, in-beds abcut six feet wide with passages from 12 to 18 inches wide. Water the celery well after bedding. Air circulation between the plants is essential.

Cabbage must be kept near the freezing point. Leave a part of the stump on. Place the cabbage in double rows with stumps inward on slatted shelves, about two feet above each other. They may also be stored in trenches or pits. Three cabbages are placed in a row across the pit, tucking the outer leaves which have been left on under the head. Then two calbages are placed on top of these, letting the outer leaves hang over the heads below, tucking in the leaves on the inner side of each cabbage. Another head is then put on top, letting the outer leaves hang over. This makes a kind of thatched roof to protect the heads. Such a pile may be run to any length desired. Ventilation in the trench can be secured by tiles run in at equal distances apart. Cover the cabbage with six inches of straw and then with earth. If very cold weather comes, the ventilators should be closed and the rest of the roof covered with more coarse straw.

OTHER VEGETABLES

Carrcts are stored on slatted platforms. They are laid two feet thick and lightly covered with sand. Ventilation must be good as the carrots are apt to heat.

Beets, parsnips, turnips and salsify are stored in bins or boxes, two to three feet deep and covered with sand or soil to prevent shrivelling.

A dark, dry cellar, below 40 degrees is ideal for onions. Place them in tiers, the layers of onions being eight to 10 inches deep. Never allow them to freeze. As the warm weather approaches, air the cellar at night and close in the day. If held for spring sale they may be kept frozen all winter. Store them in outbuildings in layers eight to 10 inches deep and after they are frozen solid, cover with waste hay. Do not handle when frozen.

Sqaush should never get frozen. If stored in cellar there should be good ventilation with plenty of heat (40 degrees) without using artificial heat. Store on tiers of shelves two feet apart. For large quantities have a separate building.

The chief thing to remember in storing any vegetable is to have good ventilation and a suitable temperature, which is generally just above freezing.

I believe there are more Helstein cows with official records of from 20 to 30 pounds of butter in a week in Leeds Co., Ont., than in all the rest of the province.-G. A. Gilroy, Leeds Co.



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- And SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS.

TYDENES CARD RESULTS OF THE SECOND SE

FARM MANAGEMENT

Management of a Peat Swamp

In a peat swamp which I am planning to

bring under califystion there are from two to three feet of vegetable soil on a subsoil of gravelly loam. How would you

auvise me to proceed to make this tillables

The first point to we observed in bringing the peat bog in question into such a condition that it will grow

crops is thorough drainage

laid deeply as when the land is orought under cultivation, the peat

brought under custivation, the peat surface will gradually decrease in depth and if the tiles were not laid decepty in the first place, they would

The peat soil owing to the large

but the batteria that are so ne-ary to a fertile soil are unable work. An application of lime of 2,000 or 3,000 pounds to the acre

pounds to the acre le. Where the sur-

amount of decon-posed vegetable mat-ter is certain to be sour, so sour in fact that the bacteria that are so ne-

face accumulation of peat is excessive plowing, arying, hauling into piles and burning is advisable annough this means a large loss of valuable fer-

Peat soils unless underlaid by a clay subsoil are not liable to prove productive. In any case to get the

best results the subsoil and peat must

be incorporated. Various plans are advocated whereby the surface and

subsoil may be mixed together. Man

peat bogs have been rendered profit-able by opening wide and deep ditches

and spreading the subsoil so obtained on the surface of the peat soil. Where

the subsoil is andy, there is very little chance of the swamp ever being brought into a fertile condition. Haul-

ing soil to cover the surrace of the peat, while practised to some extent

where land is dear and labor cheap,

is too expensive in Canada except under ideal conditions. Applications under ideal conditions. Applications of mineral manures and of garden loam also aid in making peat bogs fertile.

When to Trim a Cedar Hedge

Kindly let me know through your valu-able paper. Farm and Dairy, if it would be any harm to a cedar hedge to clip it at this time of year.-J. C., Middlesex Co., Ont.

The fall of the year is the most advantageous time to trim a cedar hedge

be trimmed at any season

or any of the evergreens, althou

of the year without any noticeable ill effects. The majority of those who

have cedar hedges prefer to have them

Notes on Swine

To get the best results from feed-ing skim milk to pigs, it should be mixed with grain feed. One pound of

cornmeal in three or four pounds of

skim milk makes a splendid balanced ration for shoats. Wheat shorts mixed with skim nilk just se it will

run, and fed in addition to all the soaked corn the pigs will eat, will

his brood sows are netting him in

his brood sows are netting him in profit, he can figure it out according to the fellowing formula: On the debit side—Price of sow, keeping spring pigs, keeping fall pigs; and on the credit side—Value of spring pigs sold, spring pigs on hand, value of fall pigs sold, fall pigs en hand, sows on hand.

sows on hand. What a blessing it is to the poor, leng suffering hog that men every-where are beginning to realize that he is naturally as clean as any other

animal and will avoid filth if allowed to. For many years he has been forced to live and sleep in foul, un-

healthy quarters; but now intelligent

a man wishes to know just what

produce excellent gains.

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trimmed in the fail

they should be

tile drains are used,

come too near the surface

laid deeply

cessary to te work.

vould be advisable.

tilizing material.

swine raisers are providing clean troughs, clean beds and clean yards for their hogs, and they find it pays better. In preparing sews for breeding it

is necessary to feed well and keep them gaining. A poorly fed, weak sow will have little chance to pro-duce a ord or start of the source to produce a god crop of pigs, when all her feed is needed to keep her up to liv-ing condition. She should be in thrivng condition when bred, so that she true condition when bred, so that she can use the nourishment given her, not shone for herself, hat for the youngsters she is producing. In breeding a large number of saws in the fall it is advisable to breed a part at a time, shipping a few days between lots, so that a farrowing time in the spring the owner will between to its, so that a farrowing time in the spring the owner will alle te get a little save gecasionally. Breeding from Nevember 16 to 20 will bring the pigs from March 8 to 14.-N.

Economy in Cement Work

Economy in Lement work Peter de Linde, Zion City, III. It is said that every sear in the United States 100,000 buildings go up in smoke, that is, are burned, and that the insurance on these is \$200,-000,000. When people wake up to this immense loss and the danger to human life enough to realize the immensity of it, they will begin to see the econo-my of building with concrete. Just of building with concrete. mv Just think of saving, and adding to the permanent wealth of this country \$500, 000,000 every year. It seems like a dream, Lut it can be made a reality.

Tons and tons, and thousands of tons of good building material are going to waste every year on the farms an dprairies of the great West, and in the forests and everywhere that can so easily be converted into fire-proof and dirt-cheap building materand directneap building mater-ial There are many places in this country, especially in the prairies of the great West, where the ordinary building material is very scarce. Lumber in those regions is worth from \$30 to \$50 a thousand feet. At such prices many farmers can scarcely aford to build comfortable dwellings for their families; and hence the nefor their ramines; and hence the me-cess ary outhouses in which to store their hay and feed and in which to shelter their live stock are beyond their ability to furnish. On this ac-count a great deal of material goes to waste, and still worse, a great num-ber of horses and catile and sheep are suffering and perishing every winter for lack of shelter. All of this can be changed if the farmers only knew of the abundance of building material that is going to waste all around them every year

Prairie fires also consume millions of dollars worth of property every year that could and would be saved by the economic plan of building. Great straw piles are burned every year in order to get rid of them, great stocks of corn cobs are often disposed of in the same way. This is extravagant and sinful waste.

All of this is excellent building ma-erial, as are also the tons of dry grass terial. The corn cobs should be dried and ground in the feed mill, the straw and the hay should be cut as fine as possible in the feed cutter and then mixed with sand and Portland cement. and it makes one of the finest build-ing materials for outbuildings. Piles of wasting sawdust in some places can

of wasting sawdust in some places can be used—nothing better. To one barrel of Portland cement and one barrel of fine sand add six barrels of ground corn cobs, or fine with her or stream or some of the cut hay or straw, or sawdust. The wood fibre must be thoroughly satur-ated for 24 hours and then mixed with the dry sand and cement until it is in a good working condition. This quan-tity of material will make 25 cubic feet of solid wall. Such building material is unexcel-led for the construction

led for the construction of stables, barns, and granaries; for it is almost frostproof, and is fireproof. Not only

can the wall be Luilt of such material, can the wan be built or such matching, but also the floors and the roof can be made of it, if it is inlaid with wire netting. The loft and the roof should be only three inches in thickness. H should then be finished with a paste made from Portland cement thin and water which can be applied with whitewash brush. Such houses ar-much warmer and far more durable than those constructed of lumber.

If these materials of vegetable fibre are ground into a fine flour-like bolted corn meal, and then mixed with the cement as described in part of my book, it can be manufactured into finegrained, strong, solid hard wood or lumber, as good as oak, and can be nicely polished. Unlike wood, it will not split, nor crack nor rot, and is freproof. From it can be made floors, doors door for the strong st hreproof. From it can be made hoors, doors, door frames, window frames, mop boards, window casings, shingles and all kinds of fine furniture.

Of course the articles have to be made in molds. Some may be disposed to laugh at, or doubt these statements, but they must know that the beautiful white sheets of paper upon which we white sheets of paper upon which we use, write, and the envelopes which we use, are made from the dirty and cast- \circ variable from the dirty and cast- \circ variable that many consider worthless. "Gather up the fragments that no-thing remain," is a holy command. thing remain," is a holy command, which few of us have learned to obey holy command, Obey this command and poverty flees and wealth abounds .-- Extract from 'Cement

Shapes of Horse's Heads

A tapering shape of the head-that is, tapering towards the muzzle-is a is, tapering towards the muzzle—is a most attractive feature and charac-terizes all well-bred horses, says an English Exchange. It is particularly pronounced in thoroughbreds and in horses nearly so, as well as in the Arab. The profile of horses' heads varies considerably, and the way in which it is shared nearboard varies considerably, and the way in which it is shaped, perhaps, more than any other point, imparts individuality to them. The line of the face, from to them. The line of the face, from forehead to muzzle, may be straight or more or less so, or it may be dished somewhat; or there may be a curve in the other direction, imparting con-vexity to it: and when this last is at all marked we get the sc-called Ro-man nosed head.

In some horses, further, the fore-head is found to be prominent, it, so to speak, bulging out at the eyes and above them. That decidedly detracts above them. from the appearance of the head, giv-ing a heavy look and spoiling its gracefulness of contour. Although a straight profile undoubtedly looks the hest, a slight dishing of the nose ie means objectionable as it does not in the least impair the good shape of the head or its locks. Such a slightly dished face is to be seen in plenty of thoroughbreds.

A Roman nose, or any tendency thereto, on the other hand, is not liked; at any rate, not in horses cf light breed, because it does not look particularly well in them. It certainof feature, and a head of this kind seems to lack in refinement as compared with a straight or slightly concave profile. But, unpleasing though this feature is usually considered, it is widely held among horsemen that the fact of a horse being Roman-nosed is an indication that the animal is of a tough, strong constitutional and good wearing sort. So far as regards. English-bred herses there may be some truth in this theory, but it does not apply to the horses of foreign extraction which are imported in this country. These frequently have a Roman nose, yet such are, nevertheless, not found to be an exception to the rule that foreign-bred horses generally prove themselves more or less soft; at least, in regard to Continental breeds.

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Oat Straw for Dairy Cows

I have a large quantity of well cured out atraw to feed this winter to dairy cave. It will be fed in connection with ensingle and roots, if such a pian is desired. How would you advise me to feed this straw when hay is scarce?-L. W., Oxford Co., Out.

Fed in connection with roots or ensinge, ont straw can be made very palatable for dary cows. The straw should be run through a cutting hox and mixed with ensinge or roots 24 heurs before feeding. The straw will then be moistened considerably and the flavor of the ensinge or roots, as the case may be, is imparted to the straw, making it quite palatable. pH is well to spread six or eight index of straw on the feeding floor. Such ensues of straw on the feeding floor, is due the spread six or denoted to feed followable sizes ary on are able to feed followable sizes and roots in alternate layers. A tex handflus to salt scattered through this mixture Fed in connection with roots or Tt

such quantities as you are now to feed followed by straw and roots an alternate layers. A tew handfuls of sall scattered through this mixture many straw is to take the place of hus straw is to take the place of hus straw is to take the place of hus straw on taken to supplemented with feeds high into the constant of the straw on the other of the straw contains only 1.2 per cent. of digestible protein, while clover hay will contain 6.8 per cent. and timothy hay 2.8 per cent. pro-tein. Cost need mean, of cake, or gluten meal lightened up with wheat bran would be good to feed comple-mentary to the straw and ensinge ra-tion. The main point, however, in mentary to the straw and ensing ra-tion. The main point, however, in feeding such feeds as out straw in ko get them in as palatable a condition as possible, and this can only be ob-tained through mixing with the en-silare or roots several hours previous to feeding. to feeding.

Sheep and Corn Silage

Sheep and Corn Silage The results of three years of experi-ments in feeding corn silage to sheep its and the University Farm, are summarized to University Farm, and summarized to University Farm, and summarized to University Farm, and the summarized to University Farm, and the summarized to University Farm, and summarized to University Farm,

3. The pregnant ewes on the sil 3. The pregnant eves on the snage rations, gained on an average for the three years, 20 peunds during each winter, while those receiving similar rations without silage gained 15% pounds.

4. The ewes due to lamb in the spring, which received the silage ra-tions, consumed 7.06 per cent. less grain and 32.25 per cent. less clover grain and 32.25 per cent. less clover hav than those eating the dry rations. For each pcund of hay consumed by the pregnant ewes on the dry ra-tions, the latter ate 2.48 pounds of silage

silage. 5. The average weight of fleece for the prognant eves during the three years was 11.06 pcunds for the eves fed on the succulent rations, and 11.46 pound's for those on the dry rations. 6. The eves with fall lamba at their ides and receiving silane gained on

The Feeders' Corner

a pay consumed by the events pound of tion containing my silage, in excess of thet eaten by the saling fed evens, the latter at 3.24 pounds of silage. 9. The fall laws pounds of silage, gained, on an average for the two years covered by the experiment, 46 pounds a head dailing gained 47 pounds. These gains, nowever, are in favor of the silage rations, for the lambs on the former rations, for the ashorter time upon the forcing rations supplied during the last 50 days of the test.

the text. 10. Of the full lambs sold as "hot-house lambs" during the spring of 1909, these receiving the silage ration showed a slightly futter condition of the gracess than those receiving the draw rations.

drv rations. 11. The average daily gain of the suring leads for the three years in the size lot was 46 pound per leads for those in the lot receiving no size, it was 48 pound. 12. In the survey of 1907, some

12. In the time after the close of the regular experiment, four lambs died from the time after the close of the regular experiment, four lands died from the effects, supposedly, of eating spolde or decom - ed singe. The cause was assigned to poisonous products re-sulting from decomposition of the singe, which was favored by the ex-posure of the singe to the air in warm partice and the more combining of the weather and the poor condition of the

Grain Ration for Cows

I have no grain but lots of ensilare, roots and mixed hay. What mill stuff would you advise me to buy to feed in combination with these feeds for dairy cows in full milk?--L. H., Wentworth Co., Det

convex in full mikl-L. H., Wentworth Co., Out. When all grain feeds have to be purchased, the grains advisable will depend upon the market prices in your locality and on the kind of roughago that you are about to feed. Toughago that you are about to feed. Where a large part of the roughage will consist of ensilage and routs, a fairly high percentage of digestible as a sufficient quantity of carbon-accous material will be obtained from the roughage fed.

accous material will be obtained from the roughage fed. As a general rule protein can be-purchased mere cheaply in the form of more expensive feeds such as oil cake or coton seed than in the less concentrated and cheaper feeding stuffs such as bran or oats. Heavy feeds such as bran or oats. Heavy feeds such as oil cake meal, however, cannot be fed alone, they need to be lightened by other grains. For this purpose, wheat bran is unexcelled. For a cow giving 25 or 30 pounds of pounds of ensilage, 20 pounds of pounds of ensilage, 20 pounds of or oil cake, wend be alout right. The concentrated feeds most advis-able to purchase will depend largely on current market prices.

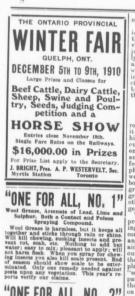
A Paying Proposition

A Paying Proposition When hogs for some time bring more than ordinarily high prices the ing pelo and temptation are for rush-ing pelo that when a rushing, and likewise to know when are ang-been sc. and probable alwass and But the author's observation is the it has taken persistent and skifful mismangement to lose money in hog raising with prices as they have rang-ed for 30 years past, harring, of course, some such explements as the so-called cholera. There is no branch of farming or stock husbandry which, farming or stock husbandry which. 6. The even with fall lambs at their sides and were were solve and solve





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A Contact Spray Only, Wool Grease, Lime and Sulphur For scale and other sucking insects, also o spray animals against pests and for dip o kill parasites and cure scab.
ain parantes and cure scab. Prices, P. O. B., New York: 0 0 0 0, 11, Oneor All. 0 0 0, 11, Oneor All. 10 0, 00, 11, 00, 10, 10, 10, 10, 10, 10
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conducted with skill and intelligence. If the experience of the basis men-is worth anything, if their observa-tions and book-keeping have any value as standpoints from which to judge, there is surely a profit in vise-ly bred, wisely fed hogs, and there always has been, at any price for which they have been sold two years in succession within the observation of men new in active life.—From Co-Lurr's "Swine in America."—Price through Farm and Dairy, \$2.60.

Why Hogs Root

Why Hogs Root It is said by observers that a hog roots in the ground for alkali which it finds in the soil and which aids him in digston. Nature helps him cut in this way when man is foolish enough to neglect him. In the amount of carbonaceous feed that we feed the hogs there is too little phosphate for them. Anything that we throw to the hogs, whether lime, bones or oyster shells seems to be greatly reliabed and seems to be a great help to them in diggeting their other feed, and promoting their general health. Tankage is an excellent feed to

ceneral health. Tankage is an excellent feed to prevent the sows and pigs from hav-ing an aparent craving for un-common feeds like hones, del leather and also killing chickens. It also aids them in getting more nutriment out of their other feed by keeping them in a healthy condition. A good plan is to satisfy the craving for "something different" by planting a patch of artichekas, which will give them their fill before putting them on clover or grass. clover or grass

ork and the Jews.-By some of ancient nations the hog was idered a sacred animal. By others was regarded as unclean, and pro-ticit as food. This prohibition ong the Jews was regarded by its and others as having been ause of a feeling that pork was of-instance of the sacred by the apt to encourage the spread of roor. Moses is thought to have olden the eating of pork because as liable to give the Israelites dis-s that would make them unable to ure the long march out of Egypt. re the long march out of Egypt. those days, when cooking was lely done, there was no doubt in reason to fear trichina.—From urn's "SWINE IN AMERICA."





A Profitable Orchard

A Profitable Orchard Five miles northwest of Forest on the shores of Lake Huron is one of the most profitable orchards in Lamb-ton Co., that cr Johnston Bros. In all about 70 acres of this farm aro-planted in orchard. Apples, plums, and peacles are grown. The apple trees range in age from 65 years to this year's planting. There is a 12 dere plot of three-year-old peaches, and 15 acres of Learing plums. This orchard demonstrates strongly travelue of scientific treatment, value of action of letting trees grow without method of letting trees grow without and 2000 barrels. Last year 2000 barrels the po-presents a gross roturn of cref stin.000 from 35 acres of bearing orchard.

orchard.

Protection of Strawberries

K. A. Kirkpatrick, Exp. Station, Minn.

Plan now to protect the strawber-ry bed when the ground freezes. Prob-ably the Lest material for this pur-



If you would have Thrifty Strawberries Next Spring, Protect Them in Winter

Strawherry plants should be protected by a covering of strawy manure or litter more kind as soon as, or shortly after, the ground is permanently frozen. Dire-tions of the strawherry plantation in winner are given in adjoining ar ide. This litter and the strawherry plantation in an orchard on L. A. Hamilton's farm, Peel Co., Ont. added after the ground is frozen solidly. In the spring the heads come out crips and delicious. This is a time-honcred method which has dedied all attempts at improvement. Heads intended for early winter may be put in paper sacks which are tied closely about the stems, then hung from the wall or ceiling of a cool, dry cellar. They will keep for several weeks, but are liable to dry out more than is goed for them before spring.

lifficult.

on L. A. Hamilton's farm, Peel Co., ont. pose will be a light covering of marsh hay. This will be least likely to in-troduce seeds of weed pests into the bed. Material useless for feed, such as reeds, rushes and the coarser grasses, will be ideal, because it will not pack so closely to the ground and at the same time it is not so easily lifted by the wind. The whole surface of the bed should be covered rather lightly, an even depth of three inches being very de-sirable. On amal beds, the material cone be halled up to the edge of the phace in the set of the edge of the phace in the set of the edge of the phace in the set of the seather is fine, have the set of the ground by may be deferred until the ground by may be deferred until the ground by may be deferred until the ground by may be deferred in either side of the load, when the loaded wagon may be deferred astride a row, he driver pitching the material eff on either side of the load, when beloef as scatter it to the BETAINNG THE COVENDO

proper depth over a convenient swath. RETLINISG THE COVENDO The problem of retaining the cov-ering during the windy weather of early winter, before the snow has fail. ent to weight it, and in early spring after the snow has left is a serious one. On small beds it may be ad-visable to use stalks cut from the ing there haves and the stalk of the start of the start porticily after busking, or gathered the rates where bundle-corn is self the rates where bundle-corn is self to retain with a light cover-of apples mostly of the first grado, of apples mostly of the first grado, selling atteget for \$\$4.

November 10, 1010.

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ing of the marsh grass. In extreme situations, such as points of knolls or exposed hilbides, it may be neces-sary to resort to small brushwood poles to retain the covering. These should be laid on top cr the hay, at tright angles to the prevailing winds and about three feet apart. The great damage is done to straw-berry plantations in the early spring months, when the snow has disappear ed, allowing the thawing of the sur-face through the day, followed by sharp freezing at night. This re-tains and the prematurely-distended cells. While prematurely-distended that time, evening be day, followed by that the events through the that time evening the day.

How to Store Cabbage

E. F. Eaton, Colchester Co., N.S. For keeping calbage till spring there is nothing better than the cld-fashioned pit. To make it, a trench there is nothing better than the cld-fashioned pit. To make it, a trench is dug wide enough for the heads and so deep that when the cabbages are in it, heads down, only the root-will be above the surface. The pit is lined with straw or loose leaves broken from the heads. Over the heads a fittle straw is placed, or a few leaves then the trench is partially filled with earth. Before winter sets in the trench is filled to make a ridge about the roots and a covering of little is

To store cabbage so that it will be crisp and fresh when wanted is not

It is among the easie

This is largely end one of our other her

IF YOU Y Leghorn Poultry Y

PURE BREI in return

difficult. It is among the duty is not all regratules to keep, where an end of the care it can be had in good to a fittle care it can be had in good to a fittle care it can be had in good and instruc-should be selected. Those that have begun to split should be discarded. They will do for immediate use, but do not keep well. Pull them and if not perfectly dry stand them on their beads under cover till they are. It will do ne harm to treat them in this way, anyhow, for a few days. Ont.

ELM

FOR SALE the following Leghorns, Si Single Comb at \$2.00 each

J. H. RUTHERF

portion. FOR SALE TWO CENTS

> Farm and subscriber Manager. FOR SALEach. Mrs

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************************ POULTRY YARD Winter Eggs Profitable

Mrs. A. Johnston, Brome Co., Que.

Poultry is only a side line with us on our dairy farm. Here there is always plenty of work for the men with the general farm stock, so the care of the fowls is left entirely to

I endeavor to make a profit out of them from winter eggs. Our poultry house is a cheap open fronted build-ing and we practise dry feeding al-together. A mixture of equal parts of whole corn, oats and wheat is scattered in the litter morning and night, about two small handfuls be-ting given to three birds. At noon a dry meaked erushed oats, two parts, in troughes head, one part, is given in troughes the sheat, one part, is dress the sheat one part, is dress them constants what it, is before them constants when we have it, is before them constants have the same they are given green cut hone. As they get milk frequently, meat foods are not so necessary. I endeavor to make a profit out of

not so necessary. With this system of feeding, the birds are kept constantly busy and I find the busy hen to be the laying hen. In this section of Quebec, there is never any trouble in disposing of winter eggs at good prices. In sum-mer eggs will drop to 12 cents a winter eggs will drop to 12 cents a dozen. This is when most of our neighbors are getting eggs. We pre-fer to get them when they are 35 to 40 cents and more a dozen.

Mashes for Hopper Feeding

M. A. Jull, Poultry ε_{LSPert} for H. C. The majority of poultymen are sup-lavor of the dry-mash method, es-pecially where laying forcks are kept in large numbers. There is much less labor in the dry-mash method. The fowls may be kept in a healthier con-dition on dry mash than with wet mash. If wet mash is used, it must be fed with very great care, although with small flecks many by-producis may be disposed of to good advan-tage in the wet mash. The principal thing in dry-mash feeding is to have M. A. Jull, Poultry Expert for B. C. hay be disposed of to good advan-tage in the wet mash. The principal thing in dry-mash feeding is to have the dry mash thoroughly mixed and to feed it in a hopper that will prevent any waste.

One good dry mash which is found to give satisfaction is': By measure-4 parts bran.

- 4 parts bran,
 1 part shorts,
 1 part ground oats,
 1 part ground barley,
 1 part corn meal,
 1 part beef scraps,
 1 b, salt to one bag
 4 mirture
- of mixture.

This is a very good ration, being largely composed of bran which is one of our best foods, and having the other heavier foods in good proportion

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD CASH WITH ORDER IF YOU WANT Barred Rock or White Leghorn Cockerels write Maple Leaf

Leghorn Cockerels write M Poultry Yards, Brighton, Ont. PURE BRED FOWLS GIVEN AWAY FREE

In return for new yearly subscriptions to Farm and Dairy. A club of four new subscribers will bring you a pair of purc-bred standard fowls. Write Circulation Manager, Farm and Dairy, Peterboro,

Another good mash may be made of

- By weight-4 parts wheat bran parts ground oats. 3 parts corn meal.
 - 2 parts wheat middlings

 $\begin{array}{c} & 2 \\ 2 \\ parts ground alfalfa. \\ \hline 2 \\ parts ground alfalfa. \\ \hline 2 \\ parts ground for green food in the mash, and if so green food in the mash, and if so ration is used, the alfalfa must be for a for the laying store. \\ \hline 3 \\ definition of the laying store deal of the laying store with the source store is but are two which have given satisfaction, although the proportion of the ground grains may be varied if thought advisable. If green bone can be procured at a reasonable price heat error may be omitted altogen and the source of the destance o$ there for an a reasonable price beef scraps may be omitted altoge-ther from the mashes. If beef scraps are used, the poultryman should see that they are of good quality. Beef scraps are preferable to beef meal.

Notes on Poultry Housing

Mrs. Annie L. Jack. Chateauguay Co., Que. Cleanliness and an abundance of air and light in the house are im-Commense and an accommense of air and light in the house are im-portant requirements, along with plenty of fresh, cool water and a variety of food, to success with poul-try. We have a small poultry houses that we now use small colony houses. And the now use small colony houses, that we now use small colony houses. At the now use small colony houses during the more of the chickens are during of lime, with the rowst. A cont-hatched in the germs di disease and copper sulphate and disease and mites from increasing, is given the success and again an midsummer.

When the poultry are measured fall, it is well to have the record of the house low at first. Round not more than two and a half inches not more than two and a half inches When the poultry are housed in not more than two and a hall incluse in diameter make good roosts. These should be painted with keroseme in the shift in the shift of the shift of the latter dces not evaporate but hardens on the noise and destroys any insects with which it comes in contact.

Grading Eggs for Sale

Grading Eggs for Sale For critinary purposes, two grades of eggs will be found sufficient to satis-ify the demands made on the producery, viz.-New laid selects and No. 1. Another grade of common stock may, for a time be markted, but they must not be sold under the brand of the Canadian Poultry Producers Associa-tion.

New laid selects :- To consist New laid selects.—To consist of strictly new laid eggs, not over fice days old, weighing not less than 24 ocs. to the dozen. Clean, of uniform size and color, packed in substaint neat cases, having clean fillers. No. 1.—To consist of new laid eggs, not over five days old, weighing not less than 21 ozs. to the dozen. Clean, packed in substantial and neat cases with clean fillers.

Common eggs net covered by the foregoing grading, must not be mar-keted under the brand of the Associa-tion.—F.C.E.

Where "Systems" Fail

 Processing and Dairs. A club of four molecular production and parts. A club of four molecular production of the production of

If people did not patronize these systems' they would not be adver-sed. Each year they are taking on point to farmers only. The pointry tised. ome suckers.

There is no man living who can judge accurately by eye what the re-cord of a hen or cow will be. He may hit the mark cccasionally—he cannot bit the mark eccasionally—he cannot very well help it. But it takes the trap nest and Babcack test to tell absolute results. There is no getting around the reliability of these me-thods, and there is no "system" or scheme possible which will provide like knewledge of the productive qualities of hen and cow, When comes to guessing, one man's guess is about as good as another's, and neither can be depended upon.

Poultry Pointers

The busy hen is the laying hen. Plan to have lots of litter in the heuse this winter.

Have you laid in a supply of grit for the winter? A load of coarse sand makes good, cheap grit. Get it now

now. The young cockerels are still run-ning with the pullets in many flocks. Separato them and prepare them for market. Likewise the old hens which are not going to be carried over this winter. They should have been seld long any long ago.

It is not necessary to have the pul-lets in the basement to keep them warm. Give them a dry, light house and they will live and lay as they never will in that damp basement.

Nothing is gained by having a male the laying flock all winter. It much better to keep the sexes separ-te. You will get more eggs and other news better eggs.

One Hundred Dollars in Gold.—As a suitable with gun of the campaign which they having our difference of the past summer, Gun, litry during the past summer, Gun, litry during the sast summer, Gun, litry during the sast summer, Gun, litry during the \$50, 830 and \$20 for the threa back shipments of noultry to reach them between December 13th and 16th. The shipment must consist of 12 tur-keys, and one of the following, 24 ehickens, 12 ducks or 12 grees. It is to be understood that the company One Hundred Dollars in Gold .- As

can purchase all anyments at current market prices. This competition as open to farmers only. The poultry must be packed in cases containing twelve birds. See their advertisement on this page of Farm and Dairy and write them for further particulars.



Every age is virtually "a bird in the hand," with your bouilty ratisfic at hand," with your bouilty ratisfic at interest of the second second second second of nonvy-making success. This know book. It must be second-hand out of a book. It must be second-hand out of a book. It must be second-hand out of how to rating poulity and who have book to second a book of the second we to adverte by the start of the second book of the second-hand out of the second second second second we to adverte by the start of the second book of the second second second second the second second second second second the second second second second second book of the second second second second the second second second second second second the second second 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 second the second the second second second second second second second second the second second second secon

For full particulars write to-day to INTEENATIONAL CORRESPONDENCE SCHOOLS, B07990 Scranton, PL

REWARD, ONE HUNDRED DOLLARS POULTRY PRODUCERS We will pay top market price at time of delivery, and a prize of \$100.00 IN GOLD Divided First, Second and Third, for the best 12 Turkeys and 12 other barn yard fowls delivered between the 12th and 16th December

JUDGE .- Professor Frd. C. Elford of McDonald Agricultural College.

Write for particulars and entry blanks

Gunn, Langlois & Co., Ltd. MONTREAL, QUE.

CANADA'S LEADING PRODUCE AND POULTRY HOUSE

9

Interesting Comparisons

Editor, Farm and Dairy,-During the season of 1910, there have been such noteworthy variations in the average yield of cows month by month in different testing associations that it occurs to me you will be interested in some of these comparisons given in the following table: ONTARIO-LOW AVERAGES

Lbs. Lbs

	Milk.	
April, Wallace	. 583	19
May Brooklin	. 647	22
June, Camalachie	. 747	24
July, Corinth	. 711	21
August, Spencerville	. 556	19
September, Dalmeney	. 515	20
Contraction of the second seco		

-GOOD AVERAGES April, East Oxford..... 1114 35 May, Peterborough..... 1044 33 May, June, July, Black Creek 1162 38 July, Warsaw..... August, Central Smith.....1030 993

ers to cull out such cows as do not pay; this is naturally followed by better feeding, and breeding to a pure bred sire of decided dairy type.—Chas. F. Whitley, In Charge of Dairy Records

Farmer's Institute Conference

A conference of members of Farmer's Institute Song and the Sun-ers' Institutes and of Farmers' Insti-tute Clubs has been called by the Sun-erintendent, Mr. George A. Putnam to be held in Toronto, Thursday and Friday, Nov. 17 and 18. The meetime is intended primarily to assist Insti-tute affacer and Instrument of Conofficers and lecturers and officer Clubs in making their work more uniform and effective during the com-ing season. The Convention will be ing season. The Convention held in the Temple building.

The meeting it is thought should result in increased activity among the Institute officers and members and will be the means of inducing farmers in many sections of the province to form local clubs. On account of the Provincial Horticultural Exhibition Provincial Horticultural Exhibition from Tuesdav to Sturdav, Nov. 15th to 19th, return tickets within a radius of 83 miles of Toronto, can be boucht for single fare, plus 25 cents. Dele-gates from greater distances may receive reduced rates on the standard certificate plan.

A most interesting programme has been prepared. Copies may be had on application to the Superintendent. George A. Putnam, Toronto, Ont.

Asked to Let the Tariff Alone

Editor, Farm and Dairy,-In vi f the evident determination of t the Canadian manufacturers to use all of their influence to keep the tariff at a high level, it is up to us farmers to have our say in the matter. That the farmers or Canada should

That the farmers of Canada shourd let the tariff alone was the opinion expressed by Mr. R. J. Younge, of Mentreal on the occasion of the visit of the Canadian Manufacturers' As-sociation to Regina last month. Such a condition of affairs would suit the protocotal interests to neeffection. Cona condition of affairs would suit the protected interests to perfection. Con-tinuing Mr. Younge said : "The dif-ferences between the manufacturer and the farmer are only on the sur-face. At heart, all are protectionists because any study of actual condi-tions would show that some tariff is tions would show that some tariff is necessary if industries of all kinds including farming are to be developed in this country. Canada is thriving as never before. No one is really suffering through the tariff, therefore go carefully about altering it." FARMERS INTERESTED

No class of people in Canada are more vitally interested in tariff questions than are the farmers. Farmers are the largest buyers of all kinds of manufactured goods and hence are most affected by a protective tariff.

FARM AND DAIRY

The manufacturer is enabled by means of our tariff to charge an aver-age of 25 per cent, more for his goods than he could without the tariff. The price which we can ask for our pro-tariff. The production of agricultural produce in Canada is greatly in ex-ress of home consumption. Therefore

cess of nome consumption. Therefore the price of our products is determin-ed almost altogether by the price which we can get in the foreign mar-ket in competition with the world. To ask a class of people so vitally interested in tariff questions and as ureally affected fragmently as is the interested in tarin questions and so greatly affected financially as is the farmer to let the tariff alone alto-gether, or in other words to leave it in the hands of the Canadian Manufacturers' Association, is ridiculous in the extreme. The modern former is a keen business man. He will not be content to leave "well enough" alone. If he finds that by changing the tariff. his business and the prosperty of the country in general will be increased. he has a perfect right to make him-self heard. OSPERITY DUE TO NATURAL CAUSES

The fact that the farmers of this country are fairly presperous in spite of the tariff, which makes us pay fully of the tariff, which makes us pay ruly one-fourth more for everything we have to buy is due to the fact that we have a new country with all kinds of undeveloped resources. It is the opening up of these resources that accounts for our prosperity; not the protective tariff as the Manufacturers? Association would have us believe. An industry which cannot survive

industry which cannot survive An industry which cannot survive without a pretection of 20 or 30 per cent. instead of being a benefit to the country is a positive injury. There are many articles on which a reduc-tion in tariff would be of most deided benefit. Individually or through do our utmost to impress on our legis-lators at Ottawa the fact that we want tariff reduction and that we will have it.—L. K. Shaw, Welland Cc., Ont

Unsoundnesses of the Horse

(Continued from page 4)

a bony growth upon the surface or among the small bones, on the inner, lower part of the hock joint, or may involve the true joint higher up. A bony growth appearing upon the outer part of the joint is called a 'jarde''. In spavin lameness the horse A uter "Jarde". In spavin lameness the horse starts out lame and improves or re-covers with exercise. Bcg, or so-called "blood" spavins, are soft, fluctuating distensions of the capsular ligaments (synovial or joint oil sacs) of the h joints, and give a Lulging appearance to the front of the part involved Curb appears as a bulging, calloused enlargement upon the rear portion the hind leg, just under the hi hock joint, involving the tendons and ligaents and sometimes the bone of the part. Crooked or sickle hocks are most prone to curb which follows undue strain when at play or work. Actual unscundness, implicating the hock unscundness, implicating the hoch joint and objectionable conformation hock rendering the joint liable to contract disease or become unsound, should be carefully avoided in the selection of breeding stock and work animals.

OTHER UNSOUNDERSES OTHER UNSOUNDERSES UROREA, SHIVENING, OR ST. VITUS DANCE is considered a hereditary dis-caze and also constitutes unsoundness in work horses. It is commonest in nervous, tall, narrow animals. The disease is most readily detected when moving the horse from one side to the other, or in backing out of the stall. The leg is jerked up once or twice at these times and the tail and quiver momentarily. muscles The muscles quiver momentarily. The symptoms disappear when the horse is exercised. "Stringhalt (akin to chor-en) is the term applied to the exag-zerated jerking up action of the hind leg seen in some horses. The trouble leg seen in some horses. The trouble in some instances is remediable by ODERATION (DEFONEAL tENOTOMY). ROARING. (laryngeal hemiplegial) is

characterized by noisy breathing when the horse is exercised. It con stitutes unscundness in both work and breeding horses.

HEAVES. (emphysema of the lungs), dicated by double bellowslike action of the obdominal muscles as the horse breathes; cough also is present. Like roaring it is an unsoundness of the breeding animal and work horse.

VICES such as cribbing windsucking d weaving are best discovered when

the horse is in the stall and although not certainly hereditary are highly objectionable and detrimental unsound.

All the prize grain from the Can-adian National Exhibition has been sent to the fourteen agricultural re-presentatives in the Province, who will distribute it in half-bushel lots

among representative farmers in their sections. These men will sow the grain, and next year will return to the representatives an equal quan-tity, and this will be handled on to other farmers.

The Ontaric Agricultural and Ex-perimental Union will hold its next annual meeting at the Guelph Agri-cultural College, Jan. 10, 11, and 12. Formerly the meeting has been held at the time of the Winter Fair; it is now to be held at the time of the Short Course on Seed and Stock Judging. A better cpportunity than ever before will be given at the forthcoming. before will be given at the forthcom-ing convention for bringing out the results of the cooperative experi-ments in agriculture that are now be-ing conducted on about 5,000 farms throughout Ontaric.

(Y

It Does More Work For You

Because the feed opening will take larger charges of hay, because the com-ound leverage nower is greater, because the sweep is shorter enabling the lunger to give more strokes in a given time, the Dain Pall Power Hay Press is much greater capacity than a push power press.

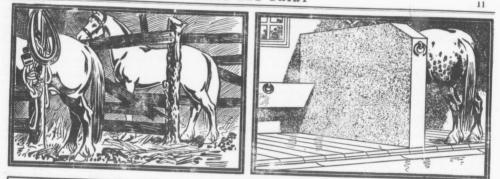
With the Dain the horses never complain of havry draft. The intervious equalizing device shifts the weights so that the load is always moderate. There is no plantan or other high obstruction for the horses to situable over. There is no heavy rebound, as whitpping of the iongue to an who the horses media is no heavy rebound as whitpping of the iongue to an who the horses media struction reduces the draft to the lowest degree. The Dain is the easy hay press-case on horse, easy on men.

You can set the Dain Puil Power Hay Press quickly anywhere as it does η need to be level. Because it delivers the bales towards the horses and z-way m the stock, it can be set at the centre, or any part of the stack. Thus do not have to fork the hay so many feet as with presses you have to set at end of stack. You stand up all the time you are tying, too.



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

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Which of These Pictures Represents Your Stable ?

F your stable is of wood, you'll do well to tear down those old, decrepit and unsanitary stalls and mangers and build new ones of Concrete.

In fact, to be properly ventilated and sanitary the entire stable-inside and out-should be built of Concrete.

Because of the continual dampness which prevails in the stable, lumber soon rots away and requires almost constant patching and repairing, besides the expense of renewing it every few years.

Lumber, too, because of its absorbent nature, soon becomes impregnated with the odors and filth of the stable and forms a prolific breeding ground for disease germs of every kind. Then rats will infest a timber-built stable and another dangerous source of disease is developed.

To build your stable of Concrete is to have it as modern as it is possible to make it. Concrete stables are cheaper than lumber, viewed from the standpoint of ultimate cost. They are germ-proof, free from vermin, durable, sanitary, fireproof, and are easily kept clean.

There is no insurance necessary on a Concrete stable. No agent could figure out the risk, because there is none. This assurance of security is more valuable than the saving of expense. There is little satisfaction in receiving a cheque from an insurance company to compensate you for loss. Concrete positively defies destruction.

The cost of a Concrete stable is less than you think and is more than made up by its lasting durability.

If you would know something of the possibilities of Concrete, fill out the coupon and send it to us. By return mail we will send you free a copy of our new illustrated book, "What the Farmer Can Do With Concrele." This book is just off the press and is priced at 50c, but we intend to distribute them *free* for a while and charge up the expense to advertising.

"What the Fermer Can Do With Concrete" gives you complete instructions for the construction of almost everything you can think of in the way of farm utilities, such as stables, mangers, feeding troughs, and so forh.

There is nothing technical or hard to understand in this book. It is written in plain, simple language, easily understood by the layman. It tells you how to mix and use concrete, make the necessary preparations, forms, molds and the like, so that you can do much of this work yourself or have it done under your direction.

Sign and mail this Coupon now, because if there is any possible way of lessening the cost of farm construction and st the same time adding to its value and durability, you certainly ought to know about it.

Clip the Coupon, or use a Pos al-mail it to us now and you will know promptly.



FARM AND DAIRY AND RURAL HOME

Published by The Rural Publishing Company, Limited.

al Malo

1. FARM AND DAIRY is published every Thursday. It is the official organ of the Ryliab Columbia, Manicoba, Rastern and Quebec, Dairymen a Associations, and of the Canadian Hoistein, Arysthre, and Jer-ter Canadian Hoistein, Arysthre, and Jer-and Great Birtain, add 66 cro postage. A yeaw subscribes.

new subscripers. 3. REMITTANCES should be made by Post Office or Money Order, or Registered Letter. On all checks add 20 cents for ex-change fee required at the banks.

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

CIRCULATION STATEMENT

OUR PROTECTIVE POLICY

OUR PROTECTIVE POLICY We want the readers of Parm and Dairy to feel that they can deal with our ad-tisers' reliability. We try to admit to our columns only the most reliable advertisers with the second second second second enters from any of our advertiser, as will investigate the circumstances fully. Should we find reason to believe that say of our alightest degree, we will discontinue immed-lately the pollocation of their advertise-ment, broadd the dirpumstances werman of the paper. Thus we will not only pro-teet our readers, but our reputable adver-tions and the second second second second read by the pollocation of the pollocy. To need only to include in all letters to adver-tisers the words. 'I as your advertise-ment in Parm and Dairy.' Gorwithin one week from the date of any unsati-factory transaction, with proofs thereof, and within one smooth from the date that is the adventage of the guarantee. We do not undertake to adjust triling differences between readers and responsible advertive the second second brows the solution of the solution of the paper to adjust triling differences between readers and responsible advertive the second second brows the solution of the solution of the second second second brows the solution of the solution the solution of the solution of the solution of the solution the solution of the solution of the solution of the solution the solution of the solution of the solution of the solution the solution of the solution of the solution of the solution the solution of the ers

FARM AND DAIRY PETERBORO, ONT.

THE PRICE OF MILK IN CITIES

The city consumer is quite right when he feels that any undue increase in the price of milk is a very real hardship, and it leaves permanent results in the impaired health of many children of the poor whose usual supply on account of the increased price has to be shortened. Milk dealers in Toronto have announced their winter price to be eight cents per quart for unbottled and nine cents for bottled milk

It may be that this price is unduly high to the consumer, but it is certain that the consumers are not getting too much. Let anyone acquaint himself with the value of fresh milch cows, the high cost of feed and labor, and the abundance of both of which it takes to care for the dairy cow, also consider the exceedingly perishable nature of the product, and they will not consider the \$1.65 per can that the producer receives one whit too much.

The whole matter of Toronto's milk from every point of view.

FARM AND DAIRY supply, as the Globe puts it, needs THE PATRON'S PROBLEM careful consideration from its econo-Some equitable basis for the paymic aspect. Decent roads leading into ment of milk should be adopted by

each and every factory. The pooling

system, or paying for milk by weight,

regardless of its quality, must forever

stand without one sound argument to

support it. There is nothing just

about the system. It is grossly un-

fair. It places temptation in the way

of the producer, which, as records

show, is irresistible on the part of

many. Under the pooling system no

encouragement is given patrons to

produce milk of quality; cheese manu-

factured is of poorer quality and year

by year reports of the dairy instruc-

tors have shown that more pounds of

milk are being required to make a

There are three methods other than

that of the pooling system any one of

which is greatly to be preferred to the

pooling system. These are to pay according to the "straight percentage

of fat," the "fat plus the estimated

casein," and the "fat plus the actual

casein," as determined by the Hart

Dairy authorities have never agreed

as to which is the more correct meth-

od of the two most commonly known,

the straight fat and the plus two meth-

od. And on that account, the general

adoption of a system of paying for

milk according to quality, has been

sadly delayed. A mere handful only

of the factories make any pretense at

dividing proceeds on a basis other

Casein is known to have definite

value in cheese making. It is right

that it should be considered. Actual

work with the Hart casein test shows

that in general the casein content of

the milk increases as the reading of

fat increases. Hence paying for milk

according to its fat content is to a

great extent taking account of its case-

Until some system is devolved

whereby official testers will be ap-

pointed to do all the work of testing,

it is not at all probable that the case-

in test will be adopted in cheese fac

comparatively a delicate one and it re-

quires more time and knowledge than

the average maker for some years to

come will be able to devote to it. Pay-

ment on the straight fat basis is the

simplest method that can be recom-

mended. It is decidedly progressive,

and has been extremely helpful to the

dairy interests where it is in vogue,

and until the day dawns when official

testers will become a part of the

scheme of our great cheese industry,

payment according to this basis

The question of dividing proceeds

is their problem, and largely theirs

will serve their own interests and the

best interests of the industry if they

agitate and carry through to a suc-

cessful conclusion the adoption of pay-

The Hart test is

than that of the pooling system.

pound of cheese.

casein test.

in content.

tories generally.

should be adopted.

content.

the city and the more general use of auto trucks, trolley cars and a less exhorbitant charge for the carriage of milk into the city and empties back to the farm, would in all probability enable the retailers to lower the price to the consumer one cent a quart and still make fair returns.

IGNORANCE NOT BLISS

It is quite proper to be wise to the danger to health that attends the drinking of water not known to be absolutely pure. Over 25 persons that attended the Orono fall fair recently were stricken with typhoid. Five of the victims have since died; others are in serious danger. Each of these typhoid victims had partaken of water drawn from a well at the local hostelry.

The greatest care should be taken in regard to all water used for drinking, culinary or dairy purposes. The wells and other sources of water supply not above suspicion are legion. We ought to ask ourselves serious questions concerning our wells and about any water used for drinking or brought into contact with things we eat. Only recently eleven cases of typhoid fever in Toronto were traced to one dairy that supplied milk to the city.

When there becomes a general appreciation of the untold suffering and the imminent danger to human life caused by impure water, people will not be caught unawares by polluted water, as has been altogether too common in the past.

LONG TERM LEASES THE BEST

Why are Canadian farms that have been rented for a few years almost invariably to be found in a run down condition? In older countries, England for example, where almost all of the agricultural land is farmed by tenants, the soil is in a higher state of fertility than is the soil on most of the best farms in the older settled parts of Canada. Our system of renting farm lands is at fault. Shert term leases are the rule, they should be the exception.

A farmer cannot reap the full benefit of improved cultivation and fertilizers in one or two years. At least four years are necessary to get out of the soil all that is put in. Crop rctation is essential to good farming, and the shortest rotation advisable for general farming extends over three years. This plan of cropping, however, is not encouraged by a short lease. No one can blame the tenant for net improving his farm when he knows that he may not hold it long enough to get the full benefit of his industry.

In England or Scotland rents are frequently made for terms of 50 or even 100 years. Long term leases are invariably the rule. Then it is to the advantage of the tenant as well as of the landlord to keep the land in good tilth. The remedy for our run-out, rented farms lies with the landlord. All should bear it in mind that long term rents are the best

The motorists, who are ready to accept, and by deputation have asked

for, a substantial tax Higher Taxes based upon the power on Autos. of their automobiles, if that tax shall be ap-

plied in increasing Provincial aid to counties for road construcion, should be granted what they ask in this regard. The license or tax on automobiles should amount to a figure that would more nearly represent the damage they work on highways. To anyone who can afford an automobile, a tax of \$25, \$50, or even more, would not be burdensome, and it would result, if applied to the cause of good roads, in greater justice to all. The low cost of the present tax or license, amounting to \$4, is little short of a burlesque.

Did you ever notice that in summer? nature hides and smooths over the un-

sightly conditions that Appearances prevail around so many in Winter farm outbuildings. A

dilapidated barn or a tumble down snake fence may be picturesque when seen in the shade of trets and surrounded by green fields. It is much different in the winter

months, is it not? Then those things stand out in all their ugliness. Winter is the proper time to have a look around the farm and see where improvements are needed in buildings, fences, and so forth.

Bill board advertising detracts so much from the beauty of a rural land.

scape that it should be Billboard discouraged. The ad-Advertising vertising agents of some pushing concern may add a few dollars to your income

if you allow them to put large sign boards up in your fields, but these will detract much more than their earnings from the value of your farm.

We regret that the table computing the sums lost, from herds of various

numbers, when the Inefficient cream separator for any Separators cause is doing inefficient work, was not in-

serted in the creamery page of Farm and Dairy Nov. 3rd, as announced. It is published this week and should receive the careful consideration of every Farm and Dairy reader who has a cream separator in use.

Our old subscribers generally understand that we cannot furnish the post office address of a

Anent our contributor, and we Correspondents make this explanation now largely for

the benefit of new subscribers. Naturally the publishers of a magazine cannot be made a clearing house for is one of vital concern to patrons. It the enormous volume of correspondence which would accumulate but for alone. At the forthcoming annual this rule. To aid those, however, who factory meetings, progressive patrons from time to time want more light on certain subjects, we suggest that they send their inquiry direct to the editor, who will try to handle it in a manner helpful to all, perhaps securing furment for milk according to its fat ther details from the original contributor.

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ma bay -s and me abo is, try to One tho fore whenote nam or s whe banl borr ever mon of i is g ing ing depo arcu being the h it ou spare away big of the sused аге и off-ha to son a sati ment this c thinki think

Arthu S R. H. The

dip in packer old b tunity many slaught ed for Care the yes made | finish. to be o likely i ection mcre t suckle arrive legs an good q will ca after a heavy v The b even ba ribs we side-fla tom lin spring o smooth

neck an wider th plenty d lungs to tions. we have tion it c good vi A face

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Selecting a Brood Sow

R. H. Harding, Middlesex Co., Ont. R. H. Harding, stiaties to o, out. The price of hogs the past two sea-sons will no doubt cause farmers to dip into the industry a trifle stronger notwithstanding the fact that the packers alaughter prices in a most cold blooded way as soon as oppor-tunity affords itself. For that reason many sevs have been spared the slaughter and have of late been select-ed for breeding.

many sews may been been select-ed for breeding. Care needs to be taken in selecting the young pig that is intended for a brood sow. The selection should be made before the pigs are put up to fish, as it will not improve the sow tikely on increed feeding but will more tection be supported by the selection tection be supported by the selection process of the selection of the selection of the suck as the selection be supported by the arrive in asfety. Look for one with legs and fees well placed and bone of good quality, not too round. It is important that the legs be such as will earry the sow along sprightly after she has attained full size and beavy weight.

after she has attained tuil size also heavy weight. The brood sow should have a straight ribs well sprung, with a long deep spring of rib. The should er should be tom line out abcut even with the side—flat rather than only, with be-tom line out abcut even with the smooth and blended gently into the meek and side, projecting slightly wider than the side in order to give plenty of room for the heart and lungs to perform their necessary func-tion it annot be expected to produce good vigorous or prefitable feeders. A face broad between the oyes is an

Use Farmers' Money to Make More New, that the fall seeding is done wells with the fall seeding is done wells with fall seeding is done better quality of meat. I like a sow and whose too many gestures and let down. Long legs are not a noces-bad-he made too many gestures and is voice was harsh and unculivated intended for travel.

In selecting for length be sure to get it between the shoulder and ham. A great many hogs are almost as long from the shoulder forward as they are

backward. Having selected a sow along the lines suggested, next in order will be to feed her liberally on bone and muscle forming foods rather than on fattening foods as it is important to develop well without making her too fat if the best results are to be obtained.

A Simple Method of Water Purification

Purification of the second sec

Prayer of a Horse

By order of Acting Police Commis-sioner Bugher, who as First Deputy Commissioner has charge of the traf-fic squads. New York: there has been posted in every stable and ether places, where police horses are kept a neutly printed eard bearing this "Prayer of a Horse."

POLICE DEPARTMENT NEW YORK

To thee, my master, I offer my prayer :

Feed me, water and care for me, and when the day's work is done pro-vide me with shelter, a clean, dry bed and a stall wide enough for me to lie down in confort. Talk to me. Your whice often mana as much to line dewn in comfort. Talk to me. Your voice often means as much to me as the reins. Pet me sometimes, that I may serve you the more gladly and learn to love you. Do not jerk the reins, and do not whip me when gring up hill. Never atrike, beat or kick me when I do not understand what you mean, but give me a chance to understand you. Watch me, and if I fail to do your bidding see if some-thing is not wrong with my harness or feet.

Examine my teeth when I do not at. I may have an ulcerated tooth

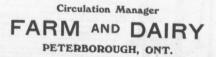
FARM AND DAIRY



PURE BRED AYRSHIRE CALF FREE

In addition to our popular offer to give a pure bred pig for a club of nine new subscribers to Farm and Dairy, we are now able to Offer a Pure-Bred Young Ayrshire Heifer Calf in return for a club of Sixteen new yearly subscribers to Farm and Dairy. Subscriptions taken for this club now will continue until January 1, 1912.

Here is a chance to win a fine animal free of cost. This animal is bred by one of the best breeders in Canada. Send in your subscriptions to Farm and Dairy at once, as this offer will be taken up in a short time. Sample copies sent on application to:





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Woodward Water Basins Increase flow of milk, and once installed they are automatic. WATCH THE RESULT. WILL PAY FOR THEMSELVES in a short time. GOOD AS A GOLD MINE

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160 acres of land convenient to Railways in Northern Ontario's great Clay Belt for each settler. The soil is rich and productive and covered with valuable timber. For full information as to terms of asle and homestead regulations, and for special colonization rates to settlers, write to

DONALD SUTHERLAND, Director of Colonization, Toronto, Ontario

HON. JAMES S. DUFF,

Minister of Agriculture, Toronto, Ontario



FOR SALE 3 Alpha De Laval Turbine Separators Just returned from factory, all doing first class work. Change in system puts them out of use. \$250.00 F.O.B., Toronto. City Dairy Co.. Ltd., TORONTO, ONT.



Creamery Department Butter makers are invited to send con-tributions to this department, to ask ques-tions on matters relating to butter making and to suggrest subjects for discussion. Address letters to Creamery Department. Qualifications of a Manager*

Robert Crickmore, Owatonna, Minn. The manager of a creamery should be the secretary. The secretary has all records at all times to report and all records at all times to report and no one else could do as well without unnecessary duplication of work and trouble. The manager of a cocparative creamery should be the best man available from area of the backholders is no man motor income of than one who has a présonal and financial in-terest in his business. A buttermaker usually is not a permanence; and nas

usually is not a permanency and has trouble enough of his own without assuming those of the management. In some cases he needs to be managed. The

aged. The manager's sole qualification should not be that he is a good fel-low. He should have some common sense and sense enough to use it. There are always one or more such men in each association. He should There are always one or more such men in each association. He shcuid be fairly will acquainted with book-keeping and know how to figure ac-curately. It is not absolutely nece-sary to have a business college grad-uate, although that should not count age-ful him-neces had no most in-genful him-neces had no most in-knowledge to begin with.

OTHER QUALIFICATIONS

He should not be thin-skinned, as He should not be thin-skinned, as the average creamery patron is not always considerate of the other fel-lows' feelings. If there is a drop in test from one month to the next the manager is to blame, but if it goes up he has nothing to do with it. He should listen to all complaints and then forget some of them. He should he converses to the storem and the be courteous to the patrons and to the travelling fraternity and able to solve the numerous propositions put up to him by the smooth butter soli-citors as they come decked in various

citors as they come decked in various garbs and their name is legron. He should knew how to test milk or cream so that he can show the dis-satisfied natron that his test was right. He should buy all supplies and should consult with the butter? maker in regard to which salt, cul-ture coal or color the latter can do

*Part of an address at the National Creamery Buttermakers' Convention, Chi-cago, October 25, 1910.

with other managers and butter-makers as much as possible, because there is always something to learn. He should attend all meeting of his county creamery or dairy organiza-tions, State and National, if possible The average creanery manager does not draw a princely salary, usually from \$100 to \$150 per annum and that will not allow much for travel-ling expenses. He should take and ling expenses. He should take and read dairy and creamery papers and keep posted.

keep posted. A man new at the business will not have all of these qualifications, as they must be acquired at a cost of time and experience. After a man has arrived at the efficient stage of the game he should be paid seme-where near what he is worth, as it takes time to educate a new man and cests money to correct some of his unavoidable errors of judgment. A new remere-I grees some of

A new manager—I guess some of us have been there: We were going to be economical and make a record. to be economical and make a record. We bought cheaper coal because it was just as good, and all coal is black anyhew. The grates buyened out be-cause of clinkers, besides it took more time to fire, and the butter-maker could not be in two blaces at one and something suffered in con-sequence. Then the different offers of did not know at first that a hither promium did not always result in a higher price per pound net. We divided shipments with two or more bouses, not realising that one good unnecessary.

Loss from Poor Skimming

A study of the losses of butter fat A study of the losses of butter lat in separating milk, due to imperfect skinming, caused either by an in-efficient separator, unfavourable con-ditions, vibration from the bowl be-

Lbs. Mill					Per Cent.	Butter Fat	Lost in Skin	Milk.
per year	.01 1	P. C.	.02 P	. C.	.04 P. C.	.06 P. C.	.08 P. C.	.10 P. (
6,000	0.60 1	lbs.	1.20	lbs.	2.40 lbs.	3.60 lbs.	4.80 lbs.	6.00 lbs
	\$0.15		\$0.30		\$0.60	80.90	\$1.20	\$1.50
30,000	3.00 1	lbs.	6.00	lbs.			24.00 lbs.	30.00 lb
	\$0.75		\$1.50		\$3.00	\$4.50		\$7.50
60,000	6.00	lbs.	12.00	lbs.	24.00 lbs.	36.00 lbs.	48.00 lbs.	60.00 lbs
	\$1.50		\$3.00		\$6.00	\$9.00	\$12.00	\$15.00
90,000	9.00	lbs.	18.00	lbs.	36.00 lbs.	54.00 lbs.	72.00 lbs.	90.00 lb
	\$2.25		\$4.50		\$9.90	\$13.50	\$18.00	\$22.50
120,000	12.00	lbs.	24.00	lbs.		72.00 lbs.		120.00 lb
	\$3.00		\$6.00		\$12.00	\$18.00	\$24.00	\$30.00
	per year 6,000 30,000 60,000 90,000	6,000 0.60 \$0.15 30,000 3.00 \$0.75 60,000 6.00 \$1.50 90,000 9.00 \$2.25 120,000 12.00	per year .01 P. C. 6,000 0.60 lbs. 80.15 30,000 X.00 50,000 50.75 60,000 60,000 6.00 lbs. 90,000 9.00 lbs. 82.25 120,000 lbs.	per year .01 P. C. .02 P 6,000 0.60 1bs. 1.20 1 30.30 30.30 30.30 1.00 1bs. 50.30 30.30 50.30 30.30 50.30 50.30 30.50 1bs. 50.30 30.50 1bs. 50.30 30.50 1bs. 50.00 50.75 \$8.50 90.000 9.00 1bs. 15.00 \$8.50 90.00 \$9.00 1bs. 15.00 \$8.25 \$8.60 \$2.25 \$8.60 \$2.00 120.00 12.00 1bs. 24.00 \$2.40 <td< td=""><td>$\begin{array}{llllllllllllllllllllllllllllllllllll$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td><td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td></td<>	$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

ing out of Lalance cr in a bad state [of repair or improper turning, is of great importance to cream producers. A table is here given for the conis of A tatle is here given for the con-sideration of creamery patrons, show-ing the less in butter fat and the value of the same figured at 25c. a pound of butter fat.

pound of butter fat. With a herd of 10 cows (an average herd) the difference between a loss of .02 and .10 per cent. butter fat in the skim milk is a loss of \$12.00 a year. Many separators, if tested, will be found to be leaving as much and sometime; more than 1-10th of 1 per cent. in the skim milk. A separater to do good work must be set level and solid, turned up to full speed indicated on the handle and running smooth

Dairy Notes from P.E.I.

The total amount of milk received by the coolerative dairy associations of Prince Edward Island during the year 1909 was 47,192,987 lbs., an in-crease of 11,466,439 lbs. over the milk crease of 11,406,439 lbs. over the milk received during the previous year. Of this, 35,873,553 lbs. were made in-to cheese and 11.810.451 into butter. **The** value of the cheese made in 1909 was \$375.5091, and of butter \$127.001 Than et value to the patrons from the milk made into cheese was \$390,003, and from that made into butter \$99,864. \$99 864

The number of patrons shipping milk to cheese factories in 1909 was 3,706 as combered with 2,009 in 1008 The patrons of creameries number 621. The average weight of milk contributed per patron in 1909 was 1009 patron grows, state of the patron beed patron grows, state of the patron nest return 82/342. The concentation dairy work has

net return \$22.42. The cooperative dairy work has shown a substantial recevery in the year 1000. Cooperative work con the Island had been declining ever since 1000. The most encouraging feature of the season of 1009 is that \$10 patrons were added to factory lists

Creamery Meeting at Guelph

Again there is extended a cordial Again there is extended a cordial invitation to creamery men and others interested in dairying to meet togeth-er at the Dairy School, Guelph, on Thursday, Dec. 8th, at 1.30 p.m. At the meeting last year are at addresses-were delivered: the whole time was given up to discussion. This appeared to meet with general approval. There-fore no set uprogramme will be rad. for no set programme will be rey, hered to, but the following subjers are probably of interest. Creamerymen are invited to come prepared to dis-cuss any or all cf them.

OGRAMME Mr John H. Scott. President

Mr. John H. Scott, President W.O.D.A., chairman. 1. Short review of creamery instruc-tion work, 1910. 2. Defects in our butter during the past acason. Suggestions for improve-ments. (A special invitation is ex-tended to butter buyers to attend and assist in this discussion).

3. Anything further to be said re-garding the grading of cream. 4. The best system of caring for cream on the farm.

cream on the farm. 5. Suggestions as to how creamery men may assist in improving the qual-ity of the cream supply. 6. Can the expenses for hauling cream be lessened and still improve the quality of the butter? 7. Are the cream scales used in creameries for weighing Babcock test

samples sensitive and accurate enough

8. What differences are shown in figuring cut dividends to patrons when

9. Is the patient or sciles are used? 9. Is the pasteurization of cream protical and profitable in Western Ontario Creamerics? 10. Would it not be well for Cream-

Managers to adopt, so far as poss-e, a uniform system of factor, ible. bookkeeping? Over reading or under reading

11. the Babccck test. 12. Maker's certificates

On December the 7th at 1.30 p.m., there will be a cheese meeting at the Dairy School which will be held instead of the usual district meetings

stead of the usual district meetings. The programme for this meetings will be given on the cheese page of Parm, and Dairy next week. Prof. H. H. Dean will give a short address at both meetings. F. Herns, Chief Dairy Instructor for Western Ontario, will give a short report can cheese and Creamary Instruction work for 1010 Davie Me. A chee. H. Barr, Chief Dairy Division; Mr. G. G. Publow, Chief Instructor Eastern Ontario, Will, O.A.C. the Director Ontario, Brof. R. Harcourts and Prof. S. F. Edwards, O.A.C.; the Director Unterio; Prof. R. Harcourt and Prof. S. F. Edwards, O.A.C.; the Director of the W.O.D.A., the Dairy School Staff, the Dairy Instructors and others will be present and take part in the discussions.

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Mr. Ayer Replies to Mr. McKim

Mr. Ayer Replies to Mr. McKim Editor, Farm and Darry,—I note Mr. McKim's reply in Farm and Dairy of Oct. 27th to my letter in-serted in the issue of Sept. 22nd. The trouble with Mr. McKim's reply is, that he started on a wrong basis. A farm that will only keep 20 cows, then necessary stock, is not worth Sitcher necessary stock, is not worth Sitcher necessary stock. I and Mr. McKim, or anyone else, a farm that will only head of young stock, and so light head of young stock, and, with the weessary borses. This farm is situated ner a cream-

ter 50 head, with the necessary horses. This farm is situated near a cream-pary where the average price paid the farmers for milk this year is over \$1.00 except the farmers of the situation each gives an income or \$2,160, in-stead of \$1,200, which Mr. McKim would get from his 20 cows. At \$1 per ext. of milk, \$80 each, we would have for the year \$2,880.

have for the year \$2,800. The nine-cent figure which I used for cheese in my last letter was merely illustrative of what could be done if the very worst came to pass and in contrast with what is being done with poor cows. As to the "farmer being ground by the middle man," it is a well known fact that nome of the large modules firm. for the nart three years. produce firms, for the past three years have made six per cent. on the capi-tal used in their business. I was born tal used in their business. I was born on a farm, have a sen on a farm, and a son in my own on a farm, notwithstanding what Jim and the sen of says, I think I can give a fair sen intelligent view of farm conditions. Many a city man is turning to the farm for profit, for pleasure and for health. There are enjoyments and neasures in tarming and in country pleasures in farming and in country life which the city cannot afford .--A. A. Ayer, Montreal.

The Fat and Casein Test

The Fat and Casein Test Payment of milk at cheese factor-ies by weight alone is obviously un-turated fat test or by the fat plus that the set of the set of the set what has set the patron more near-making. That mile worth for cheese making. That mile worth for cheese making. That mile worth for cheese making. That mile worth for cheese or both fat and casein 0.107 of the fu-versity of Wisconsin as a result of the Haltein No. 107 of the fu-versity of Wisconsin as a result of the mile the variation of casein in minimum the wariation of casein in the the variation of casein to fat on the set of the variation of casein to fat on the variation of casein to fat on the variation of casein to fat on the set of the variation of casein to fat of the variation of casein to fat on the variation of casein to fat of the variation of casein to fat on the variation of casein t It

has been argued by those advocating the straight fat test, first, that an increase in the fat content

FOR SALE AND WANT ADVERTISING TWO CENTS A WOND, CASH WITH ORDER

FOR SALE.-Large cheese factory, big business concern. Owner must sell at once on account ill health. Particulars, address, Alex. McDonald, Wicklow, Om CHEESEMAKERS AND BUTTERMAKERS

FARM AND DAIRY

Cheese Department, to ak question of milk is accompanied by an equal increase in the case of content; as condy, that high testing milk makes a cheese of such high quality as to make the straight fat test a fair cri-terion of the value of the milk for cheese making. QUATY OF CHEESE These experiments show that, while

These experiments show that, while as a general rule an increase in fat is accompanied an increase in casein, it is not always and that the quality of the chas, and that the milk than on the fat context. If all milk were kept under the same conditions of sanitation. high test-ne wilk would give - wetter quality of cheese, but the difference in qual-ity would not be sufficient to make a high testing milk with a low casein what lower but with a high casein content. These experiments show that, while

content. It was found that we writation in casein in milk from the same herd varied from 3 kos per cent, and that in milk from 18 kores the variation was from 18 kores the cent. It is evident, therefores the the casein content of milk varies to almost as great an event as does the fat content, and as casein has an equal value pound for pound in cheese making as has rat, the only jet and equitable basis for payment of lik at cheese factories is by the combined milk and casein tests.

COST OF CASEIN TEST

COST OF CABRIN TEST One of the chief arguments against the introduction of the case in test has been that the cost of operating interface is excessively high. A six of the scenessively high. A six of the scenessively high. A six of the scenessively high and r or making the test for one year would be \$2.50, or the total cost for the scene including tester would be \$42.50. In taking composite samples, po-

In taking composite samples, po-In taking composite samples, po-tassium dichromate must be used as a preservative. If the sample is kept with this preservative for more than seven days, an accurate test canarch be made. Two seven day tests in a month, however, would measure ac-curately the cheese producing value of milk delivered. of milk delivered.

of milk delivered. The conclusions arrived at by these experimenters are (1), the only just way of paying for milk for cheese making is by the combined fat and case nt set; (2), that this test is not expense and that the apparatus ed in making the test should be found in making the test should be found in experiments for the case in test thould not be kept more than seven even if correct results are to be ob-tained.

Quantity Only Considered

J J. McGill, Secretary Cavan Cheese Factory, Durham Co., Ont.

Four years ago, the Cavan chee factory was run as a creamery an both years also, the Cavan cheese factory was run as a creamery and we paid by test. Some patrons would receive as much as 20 cents a would receive as much as 20 cents a cwt. more than others for their milk, but as the butter fat was the same price to all, was the same have always paid for milk by the peoling system. A few of the pat-rons are in favor of paying by test, but at the annual meeting, the majority never favor this method of paying for the milk. Ther think that it would cost a litle more for extra help.

CREASEMARKERS AND BUTTERMAKERS can find profitable employment during that it would cost a litle more for extra help. Toull particulars to firendation Man got reliable and hasing territory gives reliable and hasing territory gives remained and hasing territory gives remained and hasing territory gives and Dairy Peterboro, Ont. Toward Certainly asy pay by test. It would be fairer to all. If the partons were paid according to the case of the second second second second second second to second second second second second second second parts and pairs (Second Second S

Criticism of Canadian Cheese

P. D. MacNamara, Trade Commis-sioner, Manchester, E.C.

soner, Manchester, E.O. The best information obtainable is convincing that Canadian cheese, which has come up so far this season, has arrived in splendid condition. The Loxes from Brockville and west of there have arrived in good sound shape. marks and weights properly stencilled. These from Quebec, hew-ever seem to be made of inferior wood, or possibly do not fit the cheese so well as those coming from the west, and in consequence de not reach this mostly broken and roped. Note the boxes scheder for the Que-tee cheese hoxes scheder for the Que-tee cheese hoxes scheder for the Que-tee cheese hoxes scheder for the Que-tee cheese boxes with the handling of cheesing broken thereas are of inferior quality. By reason of the hoxes being broken thereas are of inferior quality. By reason of the boxes being broken thereasing this whist the cheese is in transit. Import-broken boxen scheder is stadier ways, it the steamship commany stadiers ways. The best information obtainable is

ers have to stand this loss themselves, the steamship company standing upon their bills of lading, and in cases of dispute throw the blame upon the dock authorities, hence there is no re-dress for the importers.

dress for the importers, Quebec cheese makers are also not particular in having weights sten-cilled, the majority of cheese coming from the eastern districts being mark-ed in pencil. This causes great trouble threagh differences in weights receiv-ed and those invoiced.

HEATED CHEESE

The first two months of this season the quality of Canadian cheese was everything that could be desired, since everything that could be desired, since then there is some cause for complaint of cheese coming on the English mar-ket in a heated condition. This may be attributed to shipment through the heated term or else careless stow-ing in the steamships.

This fault is especially noticeable This fault is especially noticeable in cheese coming in on 'through bills of lading' from country points, and this could be avoided to a great or tent if the cheese was shipped im-mediately upon reaching country sta-tions and in such a way as through the tent of Mortrael and having of would be to Mortrael and having of would tions and in such a way as they would get to Montreal not having to wait two or three days in a hot shed be-fore being leaded on to the steamships.

LOSS IN WEIGHT

LOSS IN WEIGHT The most serious complaint made by the importers of Canadian cheese is one of loss in weight. Cheese ar-riving here frequently show a less alove that already allowed of over one pound a box. This at the present time the importer has to bear, export-time the importer has to bear, export-time the importer has to bear, export-time the interpotent of the second of the weighters' certificate, and it is thought only fair that seme arrange-main percentage should be allowed im-porters to cover the shrinkage which

occurs from the time of the public weighing in Montreal, and the time the cheese in landed at English parts. The rule governing New Zabaro of two and a half per cent. over gov-ernment grades' certificate of weight, provided that the shipment is made it days after the weights were taken to cover this loss. It is suggested that Canadian exorters could follow this Canadian exporters could follow this with advantage.

with advantage. The co-operative society of Quebec cheese makers has been formed with the aim of having our cheese judged, classed and paid for according to its real value. Our cheese is classified be-fore the sale by a competent and re-liable judge. It is then sold by auc-tion and the result has been since the bar of the result has been since the the same the bar of the sale of the different boards. These estab-lish the different boards. These estab-lish the manufacture makers to improve their makers to improve their makers to improve their makers to improve their makers t







TET thy every word and act be perfect truth, uttered in genuine love. Be true to thyself; be true to thy friend ; be true to the world.

MISS SELINA LUE MARIA THOMPSON DAVIESS

(Continued from last week.)

Miss Selina Lue, generous and tender of heart, keeps the grocery at River Biuff, she feeds the five babies whom he cares for in peop boxes, in the rear of the nore. Her fried, Qvulha Page, learne that she has taken a young antist, amage data in the rear. to board. They are introduced and Cynthia is antoyed at the young man's apparent Reina, conduces her fears that her beautini home must be sold, and is taken to bea-Kent's pictures. Kent tells Miss Selina of her love for Cynthia and is parity overheard by Gynthia. Miss Beina gives a party to all her friends for Kent and Cynthia's fraider, who is drong the eity is one of the guests. Cynthia more loves Kent's father, who is dentally to the Biffi in his car and takes Miss Selina and all the children for a ride. On his return he is reconciled to his son, and meets Cynthia.

64 NOW, den't be bothered, mist-er," said Miss Selina Lue he, and more, the pig-bead—d'you hear?-the pig-bead?" "Couldn't you do nothing with him?" asked Miss Selina Lue hear?-the pig-bead?" "Couldn't you do nothing with him?" asked Miss Selina Lue with interest, "You have to make allew-mount of such a data and the interest, "You have to make allewwhom had ever before had the oppertunity of such a close acquaint-ance with the mysterious animal known as the "ottermolole." "The young man can go in on the next car and be back in no time with the monkey-wrench or whatever you, need to fix it with. And you come right in and set here in the shade of the in and set here in the shade of the hackberry where you can git the river breeze. Bennie, set out the big chair, and, Ethel Maud, you and Luella run to the well and draw a bucket of fresh water and hand some in that new gourd hanging by the door. Just come over here and be comfortable, mister; I will admire to have you.

16

Miss Selina Lue's bustling, hospit able enthusiasm had the cld gentle man out of the machine and seated by the grocery door before he knew it himself.

it himself. "Upon my word, madam, this is plasant after the hot sun," he said in a booming voice, "very pleasant-" d"you hear?--very pleasant!" and his brows drew up in an arch of amusement as Ethel Maud.and Luella presented themselves before him with a dripping gourd held in twe pairs of small hands, for not for worlds would either of them have relinquish-ed a part in the presentation of the a part in the presentation of the sources.

ed a part in the presentation of the cooling draft. "My, my, what a nice pair of little girls we have here! A very interest-ing family, all of them--d'you hear? -a very interesting family--and large--dh?" the state of the interval

"Lands alive, mister, this is all the children on the Bluff; they don't nene of 'em Lelong to me," said Miss Selina Lue, as she took the gourd from him and began to water the children one at a time, according to size

"Now, that's too bad, madam--d'you hear?-too bad. Such a fine lot! But, bless my soul, I think you are lucky not to own a single one! are lucky not to own a single one! I-Tve got the most outrageous pig-head child myself and i-well, I just can't express myself about him; out-rageous pig-head-d'you hear?-out-rageous pig-head-d'you hear?-out-rageous pig-head''. "My, new, ain't it a pitp!" said "Miss Selina Luc expression of the poor buy take to drink?" "Did the poor boy take to drink?" "Dirink? No, madam, he did not!

near7—the pig-head?" "Couldn't you do nothing with him?" asked Miss Solina Lue with interest, "You have to make allew-ances for young men-folks; looks like jest they younghess goes to they heads. Where did he break out?" Miss Solina Lue seuted herself on the step beside his chair, keeping a watchful eye on the children, who stood as close as possible to the red marvel and discussed its wonders in the highest-pitched voices at their command. As usual, her sympathetic and interested way had its effect of istibly inviting confidence.

"In a most unexpected—pig-head-ness—left me and the business to ednessgo to the dogs and went trailing off after moonshine-d'you hear-m

Well. now, I expect he thought you could take mighty good keer yourself and the business too, y of yourself and the business too, you seem so strong for any age at all, said Miss Selina Lue soothingly. The old gentleman drew himself up in his chair and looked quite rejuvenated by the mention of his obvious youth-fulness.

"Oh, I could pull the business through well enough, but it was through well enough, but it was his leaving it for moonshine nonsense but it was

his leaving it for moonshine nonsense -d'you hear?-moonshine nonsense? ""Well, things do happen strange in this world, and it looks like they can't nobedy weigh out anybody cale's cake for 'our. Boys and fathers lots of times don't want to bite offen the same alice of life." Mas Solina Luc's eyes had a far-away look in them and the worke ave softle she

the spoke very softly. "But what's a man to do? Build great business and have a son come along and scorn it-d'you hear?-

"It might be that what a thought wos a great thing to do in life would look like small potatoes life would look like small potatoes to bis son. I certainly am sorrowful fer you about being se disappointed in your boy and hurting as it is to me to talk about it, I want to tell you about how it was with Adoni-ram and Elder Millsaps, fer maybe it will help you to git comfert." Mus Selina Lue paused as if the task was too great for her, then looked at the eld gentleman gently and began again to speak. to speak.

to speak. "You see, Elder spoke Adoniram out in meeting and asked fer prayers fer him 'cause he wouldn't take to the farm 'cause he wouldn't take to the farm cause he wonthet take to to leave to him. Looked like a plow give Adoniram a pain, and farm-chores set heavy on him all over. After his father spoke him out and all the Twin Creek Circut sistern and all the Twin Creek Circut sistern and brethren got to stoppor, when they met him, to exhort. Adoriram lit out and it was many a day 'for they seen him again. I had the little horse-hair ring he made me and faith enough to hold him up everywhere. Lands alive, but it was funny when everybody went to the meeting,house to hear him speak when he come home! He had done studied and



"I will paint you with your manger-child in your arms."

November 10, 1910.

found out all about recks and things found out all about recks and things and was in the government employ, and he had come home to tell all the neighbors that maybe they had a fortune in phosphate right under their potato-patches and orchards. And all of them was a-cheering ef him and the Squire a'calling him our leading citizen. It do seem strange how some folks will order out the music for they loys after they have done fit the hard fight and don't need no cheering on instead of starting done fit the hard fight and don't need no cheering on, instead of starting 'em out on the road of life with a little whooping up. It's then they needs it. I am mighty glad I're got that night at the meeting-house to look back on, for he was blowed up by the first rock crusher that was at an an indiverse that was set going."

set going." The old man locked fiercer than ever, but the tips of his white moustache trembled and he drew his brows together as if in pain. "He's houstache trembled and he drew his brows together as if in pain. "He's an ungrateful pig-head," he mut-tered, but a good part of the explos-iveness was gone from his tone.

"Oh, maybe he ain't now," said " Miss Selina Lue persuasively. "There's the case of Mr. Alan and his Miss There's the case of Mr. Alan and his father—the poor old man's pretty nigh broke his son's heart and is act-ing for all the world like you say your boy is, pig-headed. But we ex-cuse him."

"Mr. Alan?" "Mr. Alan?" The old gentleman sat up, but Miss Selina Lue failed

sat up, but Miss Selina Lue failed to notice the spark in his eyes, "Yes, that's a young man artist I've got boarding here with me. His name is Kent, but he is jest sich friends with everybedy on the Hinf that we all call him by his first name. His father is a hig rich man, but it seems like with all his monen, but it seems to let his son be happy and do the world good by painting beautiful pic-tures that are a regular call to good-ness for everybody as sees 'em. He never said a word about this trouble, but Miss Evelyn Branch told us about Dut Muss Evelyn Branch told us about is fer she got acquainted with him last winter some place she went. The poor boy grieves so over his father that I feel I could do jest anything to help make 'em up. He has painted some beautiful pictures to go in a hall for workmen to see how beautiful work can be nainted about and ke hall for workmen to see how beautiful work can be painted about, and he hopes his father will see 'em and maybe forgive him for painting. I never close my eyes at night with-out making it a subject of prayer to soften that old man's heart." Miss Selina Lue's voice was deep with emotion and her eyes shone with wist-fulness. fuln

"Did he say his father was a hard-headed, old pig-head?" asked the old

headed, old pig-head?" asked the old gentleman forcely. "No, indeed; he never!" exclaimed Miss Selina Lue hastily. "You don't know Mr Alan! Why, he's jest that tender and good that you would know he loved his father hard. But how his father could net know him enough to trust him to do his man's work in the world. I don't see. Looks like a man must think his own life have been a grand success if he goes to a-directing of his son's." "And this Mr. Alan-er-er-you any he lives here? Been here long?"

"And this Mr. Alan-er-er-you awy he lives here? Been here long?" "Long encugh to git into the good feelings of every man, woman, child and puppy en the Bluff, and to git Miss Cyntbia to loving him enough to marry him as soon as he finishes the pictures and gits paid fer 'em, which she wouldn't wait fer, but he thinks they better." "Married!" the old gentleman ex-ploded the word and lay back in the chair and fanned himself with the value better." "Yes, Mis Jackson Page's daugh-ter, and a blessed angel of light she is, teo prety and stylish fer any use. It's jest one of the most beautiful and happiest things in the world, if it wasn't for the mortgage and the fatter.

father

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sta fee far us seic whe une less T we It give and in (pand jeice We are weal a po which the belie belie Go that shoul us to attai to be comm sin. brom is th becon Him minee a gre te that man and l our f

it who It doe

"It is written, Be ye holy, for 1 m holy."-1 Peter 1, 16. Often there is borne in on us the iscouraging conviction that our life

is proving more of a failure than of a success. Our defects of character success. Our dofess of character stand out so complexically that we red that they door us to live a life far below the level that our soult tells us that we should atour soult tells sciousness of our ow strain. The con-sciousness of our ow strains feel that the unequal structure areains feel that the unequal struggle against sin is hope-

less. There is great hope for us when we have reached this attitude of mind. It shows that we are long to give up trusting in our own situation and that we are ready to trust more in God. Well may we feel depressed and conquered when we look on our own helplessness. Well may we re-jete when we turn our eyes and Fown helplessness. Well may we re-jecice whom we turn our eyes and thoughts away from self to God for we know that from self to God for things are possible: God can transform our weakness into strength and fill us with a power before which the difficulties which now appal us will disappear like the miss a scherrise we refuse to believe this force the sun. We must believe this so therwise we refuse to believe God's word. God has told us to be holy. Does that word frighten, discourage us? It

God has told us to be holy. Does that word frighten, discourage us? It should not. God would not have told that word frighten, discourage us: It should not. God would not have told us to be holy if it were impossible of statianment. We have commanded us to be hely. We must owey our God's commands or deliberately remain in sin. We must know that God has promised to and that he will give us the noncer we need to enable us to promised to and the the will give its the power well that the will give its the power well that the will give become holy if we're that y deter-minedly ask Him for it. His to the a great blessing that God Will is to it to us lightly. We must show Him that we desire it with all our heart. Then we will get it. Never yet has a man or a woman gone to God and asked earnestly for the better gifts and been refused. God forten tests our faith but He delights to reward it when we preserver in our requests. it when we persevere in our requests. It does not matter how hard our lot



5.

OUR HOME CLUB THAT FARMER'S WIFE

THAT FARMER'S WIFE So much has been said about "The Farmer's Wife" I came to the conclu-sion it was being fairly well threahed on all sides, but yet can not resist asying something after I had read the article by "Mother", and the "Pastor's Wife," in the June 16th "The time to be the day to the line of the source of the source of the source I is it to be not source of the source source of the source of t the article by "Mother." and the "Pastor" Wife," in the June 16th issue. It is true we are told ime and again that the majority of the ime and again that the majority of the ime and surely. "Philosopher" does not think it is just because they are farmers' wires, if he does I beg to differ with him. I think like "The Pastor's Wife" and "Mother" you have only to spend a few hours in the city to find out the "farmers wife" is not the only one we has cares. True it may be they what has cares. True it may be they what has cares. True it may be they often in the first farm. Do you find them in the origin farm. Do you find them in the origin farm. Do you find them in the origin farm. Do you often, not because she like they robe and paddle off to meet here best vote and paddle off to meet here best when he got home. I feel like calling such men great big babies, yet they are the die of the city. Where do the majority of our city out may be more than here a some they are the die of the city. "Where do the majority of our city on the size of the city." Where do the majority of our city of her letters, "Those mon hear good ora-tors, etc." Those mon hear good ora-tors, etc." Those mon hear good ora-tors, etc." Those mon hear good ora-laty where there are children, as one thing is certain, no one can take the place of Mether. They should try and place hear or set han they 'Pastor's Wife,'' in the June 16th ssue. It is true we are told time and

ially where there are children, as one thing is certain, no one can take the place of Mether. They should try and do the very next best possible. There are happy and unhappy homes no mat-ter where we go. I am such a lover of the country, I fail to see why a farmer's wife, if she is treated as she should be, should ever regret she le-came a farmer's wife.—"Annt Jane."

FARMERS SHOULD THINK

FARMERS SHOULD THINK Oh, hubands and fathers on the farm wake up. What are you doing? Is it possible that all this talk in magazines and newspapers is true, that with your own hands you are driving your children to the city and your wives to the insane asylum, when the life cn the modern farm abculd be almost ideal? Some time ago I referred in these columns to the

when the life cn the molern farm should be almost ideal? Some time ago I reforred in these columns to the fault of long hours, monotony and no regular returns for labor being the trouble, Lut was some contradicted by "Integration of the state of the some states assing so it drop there, but after senior get it drop there are subject. I felt I many letters on the subject is a gree with the farmer, but the man who was at fault and ex-cept for the work and isolation, the re-cept for the work and isolation, the re-sult must have been equally as disast-tron in a city home. For my part, I children as far from another wom its children as far from another wom its are in a commit as commits. children as far from the temptations of the city as possible. My advice to girls would be,—Beware of such bur-

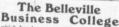
There is altogether too much truth mugh in some of the compliments. 1 th

refuse to believe ycu are worse than other men, only you live so apart from the finer things and become six sorbed in your agricultural pursues, that your eyes are often blinded and your bodies to tired to appreciate the changes gring on about you, or to your nounes too tired to appreciate the changes going on about you, or to understand the yearnings of your wife and children as they catch, shall I say, a broader view of the real life, the inner life that must be fed.

more its that must be fed. You must keep in touch with the times if you as he ago dompany ion. When you as he ago dompany to the second second second second its her you are here and the show it when you get home. Never initiate it when you get home. Never initiate it sonly a bouguet or a box of bon homs. Watch how she appreciates your consideration. It is said a many will do more for love than many will do more for love than many will be true. Remember the farmer's home is the most important self if this be true. Remember the farmer's home is the data to have a properties how much depends on your childrening and play games with your childrening and evening and never be too husy to be interested in their pleasures or disa-interested in their pleasures or disa-to often encourage them. They will un-derstand you then. Last, but not often encourage them. They will un-derstand you then. Last, but not derstand you then. Last, but not least, do not grind the sweetness out of their lives to build a bank account or the largest house and barn in the neighlorhood. Give them what they will appreciate far more and never forgest to thank you for the memory of a happy home.-"Dot."

...

When soot falls on carpet or furni-ture from the stove or smoking lamp, prindle thickly with corm meal, let fand a few minutes, we have been a stored to the free stand a few minutes, we have been a stored to the store of the stard stored by the stored by the store of the store



which has been successfully conducted for than twenty years, offers exceptional logue D. THE BELLEVILLE BUSINESS COLLEGE, Limited, P. O. Drawer "B," Belleville, Ont.



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in winter when you have a Perfection Oil Heater. It is a portable radiator which can be moved to any part of a room, or to any room in a house. When you have a



you do not have to work close to the stove, which is usually far from the window. You can work where you wish, and be warm. You can work oh dull winter days in the full light near the window, without being chilled to the bone.

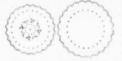
The Perfection Oil Heater quickly

gives heat, and with one filling of the font burns steadily for nine hours, without smoke or smell. indicator always shows the amount of oil in the font. The cap, put in like a cork in a bottle, is attached by a chain. An The fillerheater has a cool handle and a damper top. This

The Perfection Oil Heater has an automatic-locking flame spreader, which prevents the wick from being turned hame spreaturer, which prevents the wick from being turned high enough to smoke, and is easy to remove and drop back, so the wick can be quickly cleaned. The burner body or gallery cannot become wedged and can be unscrewed in an instant for rewicking. The Perfection Oil Heater is finished in japan or rewicking. nickel, is strong, durable, well-made, built for service, and yet



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mlums?

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Methods of Making Bread

(Continued from last week.) When the recipe does not provide sufficient materials to make the desired quantity of bread, the amount of the various ingredients may be halved, doubled or changed in any way provided their relative proportion remains the same

PREPARATION OF When SPONCE. the ferment is reaay, put the rest of the sugar, salt and lard into kneading-pan, bring the rest of the liquid to 90° F. and add it to the ingredients in the pan. Add enough strong the to make a flour batter that will

beat without spat-tering; add the ferment and beat until it looks smooth and elas-tic. This will

tic probably take 15 or 20 minutes. Cover closely, and keep at a temperature of 70° F., until light and spongy. This will take from 9 to 10 hours.

PREPARATION OF DOUGH. When sponge is ready, stir in strong flour until too stiff to use the spoon, then mix in more with a stiff-bladed knife, or the hand, with a still-bladed knile, or the hand, until the dough no longer sticks to the fungers. Turn the dough out on the moulding-baard to knead, leaving the nan quite eleen. The dough should knead without flour being put on the board or hands: if it proves sticky return it to the pan and mix in more flour, remembering that while too elack nour, remembering that while too slack a dough makes coarse textured bread, too stiff a dough makes slow-rising bread which will dry out quickly. Knead lightly until the mass is elastic and relatively, the surface covered with a film of tiny bubbles, and a cut with a sharp knife shows the inside full of fine even bubbles and free from lumps or unmixed portions. Grease the fine even bubbles and free from lumps or unnixed portions. Grease the kneading-pan lightly with lard, warm both pan and cover if they are cold, put in the dough, cover closely, and keep at a temperature of 80° F. until rather more than doubled in volume, or until a gentle alap with the tipe of the fingers causes it to fall in. will take from 2 to 3 hours. This

Knead lightly in the pan for a min-ute to get rid of the larger bubbles and return to rise a second time un-til double in volume. This will take and return to rise a second time in-til double in volume. This will take from 1 to 2 hours. Divide into loaves that will half fill the Lread bins. Knead each piece only enough to get vid of large bubbles and smooth the surface, and put it into a greesed tin. Keep at a temperature of 70° to 80° F. until doubled in volume, when they should have a bold, nicely rounded appearance.

Bake an hour in a very hot oven. When done, the loaves should give a hollow sound when tapped on the bottom

When baked remove at once from the pan, and stand on edge or across the top of the pans, that the air may get to all parts and cool it quickly.

- HOME-MADE YEAST. 4 medium sized potatoes. 1/2 cup hops 1 quart boiling water.
 - 1 cup sugar 2 cup sugar 1 cup flour. 2 level tablespoons salt. 1 compressed yeast cake.

Boil the potatoes, drain away the water, and mash potatoes, drain away the from lumps. Pour the boiling water, which may contain the water drained from the potatoes, over the hons and from the bolatoes, over the hors and simmer 15 minutes. Measure into a 3 ot. bowl, the flour, sugar and salt, and mix thoroughly. Strain the how water, and add at once to the Low! stirring rapidly all the time. Add the mashed potatoes and give the



at first.

where a thorough beating. Control of the onpressed yeast cake soaked in $\frac{1}{2}$ cup of warm water for $\frac{1}{2}$ an hour. Keep at a temperature of 70° F. for 3 or 4

hours, stirring down as often as it comes to the top. Bottle and keep in a cool place. Do not cork it tightly

. ONE DYE FOR ALL KINDS OF GOOD JUST THINK OF IT !

Home

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THE CANADIAN HOME JOURNAL

Looking over this journal, you can scarcely believe it is the same maga-ains that you knew a year ago, it has a solution of the same same same same tiveness. The Home Journal of torbe-is a sixty page monthly-a magazine of which Canadian women can justly be proud.

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 $4\frac{1}{2}$ yds. of material 27 in. wide, $2\frac{7}{6}$ yds. 44 in. wide or $2\frac{3}{6}$ yds. 52 in. wide, with

, vd. of velvet for the collar. The pattern is cut for a 34, 36, 38, 40 and 2 in. bust, and will be mailed for 10 cts. 42

RESS, 6321 The dress trimmed with buttons at the front yet closed at the back is new and greatly liked this season. This model includes a dainty includes a dainty chemisette that can be made from any contrasting material and the tucks over the shoulders give becoming breadth. Material required

Material required for 10 yr. size is $5\frac{1}{2}$ yds. 24, 4% yds. 27, $3\frac{1}{2}$ yds. '36, or $2\frac{1}{2}$ yds. '36, or $2\frac{1}{2}$ yds. '4 in. wide, with % yd. of any width for the belt, $\frac{1}{2}$ yd. 18 in. wide for trimming. The pattern is cut for girls of 8, 10 and 12 yrs., and will be mailed for 10 cts.

TUCKED OVER BLOUSE, 6813



Material required 44 in. wide, with % yd. 18 in wide for the

any

5

trimming. The pattern is cut for a 34, 36, 38, 40 and 42 in. bust, and will be mailed for 10 cts. TUCKED OR GATHERED SKIRT, 6819



The full skirt shir red to give the ef-fect of a tunic , is one of the very new ones. As this model can be As this model can be made either with a slight train or in walking length, it is adapted both to sim-ple occasions and to those of a more for-mal nature. All the fashionable thin ma-terials will be found appropriate.

terials will be found appropriate. Material required for medium size is 7½ yds. 24, 27 or 36, or

yds. 44 in. wide. The pattern is cut for a 22, 24, 26, 28 and 30 in, waist, and will be mailed for 10 cts.





November 10, 1910.

The Sewing Room Paterus 10 cetts each. Order by num-ber and size. If the rathering give age and waite measure for kitter, Address all orders to the Pattern Department.

SEMI-FITTED COAT, 6824

The short coat will The short coat will be much worn throughout the en-tire season. This model is exceptional-ly smart and will be found available for all seasonable mater-ials. It is just as pretty for the sep-arate jacket as it is for the coat suit. It can be mark and other lower and other lower and other

longer, and either with cutaway or straight fronts.

GIRL'S DRESS, 6821

whole a thorough beating. Cool to 70°



*********************** OUR FARMERS' CLUB Contributions Invited.

NOVA SCOTIA

ANTIGONISH CO., N. S.

ANTIGONISH, Nov. 2.-In our Standing Grain Fields Competition first place was won by Donald Chisholm; second, J. U. Chisholm; third, Crockett Bros., and Chisholm: third. Crockett Bros., and fourth, Harry Eadle. The competition was open to Pictou and Antigonish Counties. \$100.00 was given in eight prizes, fields to be not less than three acres.—Tom Brown."

PRINCE EDWARD ISLAND

KING'S CO., P.E.I.

CARDIGAN BRIDGE, Oct. 30.—There has been little fall shipping yet. Produce is moving sowly. Potatoes are scarce at 30e a bushel. Eight schooners are in port at present loading with produce. Six have cleared from here this fall. Onts are 35e to 38e a bushel: turnips, 6c; pork has dropped from 10c to 8c and 9c a lb., dressed.-H. P

QUEBEC

COMPTON CO., QUE.

COMPTON CO., QUE. COMPTON CORTRE, Nov. 1.—We have had two or three hight anowstorms. Most of the farmers have their turnips in. They are a good crop. Gattle are scarce. Has is low, selling at from \$4 to \$6 a ton. Port has dropped in price to 18c a th. Cornmeal, \$1.5 a cwt. Many are hauling water for their stock now.—H. G. C.

SHERBROOKE CO., QUE.

LENNOXVILLE, Oct. 27.-Dairy prices have held fair during the summer and turns have been satisfactory as many pastures were understocked and the cown benefited. Threshing is in full swing and the yield is good. Many farmers are buy the yield is good. Many farmers are buy-ing manure from the Montreal stock yards, paying as high as \$23 a car-H .M.

ONTARIO

CARLETON CO., ONT.

BRITANNIA BAY, Oct. 28.-Grain was short owing to the drought. Corn was no short owing to the accugat. Coffi was not up to the average. Potatoes were large but few in a hill. Roots were good. Gar den vegetables and fruits were a failure Plowing is nearly finished.-J. A. D.



S. Nixon, Kilbridge, Ont.
 S. January 21, 1910, "I have ABSORBINE with success

W. F. YOUNG, P.D.F., 123 Temple St. Springfield, Mass. LYNANS Ltd., Montreal, Cauadian Agents.



FARM AND DAIRY

FIGANKULER, Oct. 30.-Prankville fair was heid September 29 and 30. The weath-er was all that could be desired. The number of entries was large and the ex-hibits fine in every class, except roots and vegetables. Mr. J. C. Anderson, of Morganaton, Ont., was judge in the horse classes and concentration that the exhibit of colts was extended that the exhibit of colts was extended and concern. W. F. M. SIMCOE CO., ONT.

ALLISTON, Nov. 2.-The farmers at busily engaged housing the root crop which are good. The late apples are better crop than at first expected.-W. L. a

WENTWORTH CO., ONT.

KIRKWALL, Nov. 1.-Potatoes and man-gels are nearly all in. Fall plowing is the principal work to be done now. A great many potatoes are rotten. Mangels are a many splendid erop, yielding as high as 1,000 to 1100 bushels an acre. Hogs are now very low, §7.25 f.o.b.,being paid.-G. A. W.

KENT CO., ONT.

» KENT CO., ONI. WHEATLEY, Nov. 1.—Farmers are busy now husking their corn. It promises to be a bumper crop. Some fall plowing is be-ing done. Apples are light, and of poor quality. Those who have any are gotting about \$3 a barrel locally for a second grade quality.-J. W. K. quality .- J. W

LAMBTON CO., ONT.

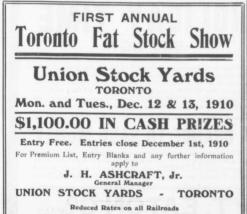
WYOMING, Nov. 2.—Tile yards will not be able to supply the demand for tile. The rush to the west has slackened, as some that went last spring have returned and purchased farms here.—D. N. A.

BRUCE CO. ONT.

HEPWORTH, Oct. 26-There has been ideal weather for fall work. Potatoes are nearly all dug: they are not nearly so good as last year. What there are are of a good size and no rotten ones. Mangels and turnips are good. Cattle are scare a good size and no rotten ones. Mang and turnips are good. Cattle are sea-and high in price. At an auction gale cently grade mileh cows sold for over each, yearlings at \$35 and calves at each, which are the highest prices th \$16 each, which are the highest prices that they have ever sold for here. Apples are almost a failure.-J. K. L.

BRITISH COLUMBIA.

BRITISH COLUMBIA. Stock Jodging Coupetitions serve a fea-ture of the fail fairs at Victoria and New Westminister this fail. At each of these fairs there were two classes, one for com-petitors over 11 years of age. In the pritors over 11 years of age, and another for those under B years of age. In the toria, w. H. Ranford, Chillwack, and Pells Guichen, Port Guichen, tied for first, and P. H. Wilson and James Higginson, of Chill wack, tied for second place. The results in Percy Grime, Pender Island; 2nd, Alex. Brethur, Victoria. At New Westminster. first place in the senior competition was won by James McCluphan, Port Kells, E. A. Veries and T. H. Wilson, Chillwack, the years of age, the winners were A. Mo-Allister, Eadner, Neptune Grimer, Pender Island, and J. Lowrie, Ladner, A. J.



AYRSHIRE NEWS

Farm and Dairy is the official or-gan of The Canadian Ayrahire Breeders' Association all of whose members are readers of the paper. Members of the Association are in-vited to send items of interest to Ayrahire breeders for publication in this column

AYRSHIRES AT NATIONAL DAIRY SHOW

AYRSHIRES AT NATIONAL Two exhibitors of Ayrshires provided one of the strongest shows which this breed has made in years. For the most part it was imported against West Virginia-bred was imported against West Virginia-bred Beanogue Farm of New York had was imported against West Virginia-bred cattle. Byanogue Farm of New York had a large proportion of imported cattle, while almost all those shows by L. A. Rey mann of West Virginia were of his own manned West Virginia were of the startlored, out, for he manifested a perference for the thinner imported types. While the West Virginians were not in the least oversited, they were asmoother and more oversited, they were on the whole a comput-tors, and were on the whole a computattractively finished than their competi-tors, and were on the whole as correct in breed type. In view of these circum stances, the winning of a majority of the blue ribbons by the New Yorkers did not make the judge's work so oppoints as it could have been with a little more merited recognition of the Reymann entries. In fact, the judge's decisions in three classes were protected by that eshibitor, but the board stood pat or the awards as made. However, it made an unwards new model. board stood pat on the awards as made. However, it made an unwards new made sion when it appointed Prof. Hugh 0, Yan Pelt, of lowa, and W. B. Arkcoll, Paolt Pa., to act with Mr. Ballantyne in judging the groups and championships. Seldom indeed have our shows presented such a uniformly high class collection of this South breed as was here assembled, and it is a ditting evolt to Wase Viscoist

and it is a distinct credit to West Virginia that it is a balance from one of its hill farms as handsome a herd as could be got together in any country. It was an eye-opener to those who may not have looked upon that southern state as adapted to Ayrshire cattle-raising. Mr. Reymann has gone in for Ayrshires on the theory that gone in for Ayranires on the theory that topographically his country bears a close resemblance to that in which the breed has been developed, and that it should therefore prove a fit place in which to raise them. His show herd is his answer. THE BULLS

Lessnessock Gay Marshall, an imported bull of a marked dairy pattern but a bit rough and upstanding, could not win over Dairy King of Avon, a low-set, straight-lined bull with a deal of quality, under the difference is judge. As hetween them, the difference is straight and a straight and with the difference is one of condition as much as type. An even lined two year old with ample room of body got his dues, the sec-ond prize being a bit plain about the tail-head and carrying more field than the judge liked. One of the sensitions of the show was uncovered in the yearing Neth-erraic Carrue, which defeated two cacep-tionally good yirals. "He is the right true " to quote the index washtionally good rivals. "He is the right type," to quote the judge's public comment and was shown in the pink of form. Sen-ior and junior calves were well grown, and of sterling character, a fit conclusion to an admirable exhibit of bulls.

THE FEMALES

Six aged cows, with which the breed's show was opened, made a memorable im-pression. Two stood out as the judge's dif-ficult task. All were show cows. Shortstraight backs were unanimous. Boghall straight backs were unanimous. Boghall Snowdrop Jind is a wedge of quality and a model of character. She is close to the placed tests of standard eine, and is a notable performer at the pail. In a class that ran to while in color she was complo-uous by the preponderance of brown in her coat. Oldhall Eadysmith 4th is of Biolis by the preponderance of orow in particular processing the same patient, suffering a triffer of these were selected with hub object of increasing the size and weight of Oldestructure to the same patient, suffering a triffer of the selected with the object of increasing the size and weight of Oldestructure to the same patient, suffering a triffer of the selected with the same patient, suffering a triffer of the selected with the same patient of the same patient of the same patient, suffering a selected with the same patient of the s

as body is concerned. Lessnessock fibure an imported heifer, needs depth. It was not a strong class. Five yearlings not in milk were uniform in build, and the four witnews made a pleasing picture, axisfy-iously shifted. Yiola Lind could have the insum without violance regood informet. loasly shifted. Viola Lind could head the cleas without violence to good judgment. So could Daisy Verbank 2rd. Senior 1-Her calves, five in nuraber, were similarly cleas together in merit, and the judges selec-tions could be chanced from top to bet-tom without serious injustice, arthrough IIII TOP Pearl, a wonderfully seek, rice-ly modelled call, would oftener lead than stand butween winners. Become the sense stand between winners.-Breeders' Geret

CAMLACHIE SALE OF AYRSHIRES

CAMLACHIE SALE OF AVPSHIRES Unfavorable weather reduced the atten-dance at the sale of John Ferguon, at Camichik. Onl. 10, eds. 39, Mr. Moloy was thready for females, of which the 21 head made an average of 87 each; six cows at 890; two three year olds, 855; seven two year olds, 875; two yearlings, 845; four-year olds, 975; two yearlings, 845; four-sen two provides and the same trans-transformed and the same transformed and Ayrehire grade heiters brought \$100.

CANADIAN AVESHIRES IN U.S.

Writing in the "Practical Dairyman," V. C. Fuller speaks as follows of two cows. V. C. Fuller speaks as follows of two cows, imported from Canada, and now owned her Mr. F. D. Erhardt, West Berlin, Vermoi Jean Armour 25487 was dropped October 19, 1901, and was sired by Bobs 13187 out of Sarah 2nd, 13197, all in the Canadian herd

book. We had here a great deal about this cow and naturally expected to see a grand one, but were not propared for such a treat as met our eyes. Pen will never do justice to her. She is long and large, ex-tination of the second second second second the articlus on a prefect weight shape, of the articlus of the second second second by great teats and fed by simply wonderful voins. Her needs is long, her withers as sharp as a rator, her back lines are per-fect, as indeed is her whole conformation. Her under lines are superb, and he hand-cow, a wonderful cow, built on the most perfect dairy lines wo have seen for many a day. We were simply loss in admiration perfect dairy lines we have seen for many a day. We were simply lost in admiration of her and it was a most difficult hing to get away from her; in fact we went hack again to look at her, and the more we looked the more we admired her. She had not come to her full flow but was manking 72.5 lbs. of mile on 13 lbs. of feed a day, and was expected to go to 80 or 90 lbs. a day if all went well.

We were shown two cows. one Dalfibble Tibbie 3rd, 23447, Imp. by Robert Hunter & Son, and purchased at the Worcester sale for \$1000. She is sired by Commander of Dalfibble 4667 out of Dalfibble Tibbie 2nd. Dalfibble 4667 out of Dalfibble Tibble Znd. She won twice against strong opposition in Scotland and is by the same sire as the London Dairy Show winners of 1996-74. Her granddam, Tibble of Sarkshields, was in-vincible at five shows in 1890. The other was Royal Lady of Glenora 20166, American bred.

They are certainly a beautiful pair, such as would be hard to beat. They have magnificent udders, such as only an Ayr-shire can have, heid well up to the belly. They are both nearly all white, with some They are both nearly all white, with some red gots. If any criticism could be made of Lady of Glenora, it would be that she is on the small side; but she has so grand a barrel and is so good in every way that one can overlook this.

GOSSIP

SALE AT ORMSBY GRANGE STOCK FARM

SALE AT ORNSBY GRANGE STOCK FARM Fire two year old and six yearling im ported Clydesidale fillies were offered at the first annual sale at Ormsby Grange Stock Farm, Ormstown, Que, on Wednesday, Oct. Such, These fillies, imported by Dr. Mc-Eachran, were of the heavy boned, wide quartered type, herd from large horses. These were selected with the object of In-

A heavy rain on the preceding day deter, red some from putting in an appearance as the sale. About 200 were present. The top figure was secured for a magnit-leant brown filly three years old, this and for 460. A two years old by Lord Derreent fell to W. H. Walker, Hunti'rgdon, for 835. A. Cunningham hies secured a Lord Derreent S30 and 8275. The sale was not what might have been extended on the was not what might have been extended on the was not what might



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FARM AND DAIRY

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Montreal as in



Toronto, Monday, November 7.-Charges press again brought against the C. P. R. in transit. The with the feeding of eaties in transit. The with the feeding of eaties been fod at the sent coses is that of 155 head of cattle sent coses is that of 155 head of cattle sent coses is that of 155 head of cattle sent coses is that of 155 head of cattle sent coses is that of 155 head of cattle sent coses is that the been fod at White River 10 to 12 head from the sent coses of the sent coses of the process of the sent coses of the sent coses is still under coses for the first canadian there sent is 0400 at the first canadian walk of 150 at the first canadian walk of the thank out of a possible score of 1600, the hank out of a possible score of 1600, the hank out of a possible score of 1600, the hank out of a possible score of 1600, the hank out of a possible score of 1600 the hank out of a possible score between the hank out of a possible score between the hank of 1600 the hank

score of 100, the indges awarded 70 marks to the winners. Farmers are interested, as well as city dwellers in the record of Shudon, the Montreal get-rich-quick schemer. Shudon, the assets, according to latest furning will realize about one ½ cent on the dollar, and the liabilities are half a million. The moral to be deduced is keep clear of such allurements and stick to the ordinary well-trayelled reads of commerce. It is at any rate, the safet plan for the farmer. Business is reported brisk in all quar-ters.

2 Call money in Toronto rules at 51% to 6

WHEAT

Wheat prices are still above export level and seem likely to remain so whilst for-eign lands are enjoying good harvesta. All the European grain centres have been on the decline and holders on this

side of the water are correspondingly disappointed. On the Winnipeg market at last advices, November wheat closed at 89%c; December, 68%c, and January at

COARSE GRAINS

COARSE GRAINS The trade in most coarse grains is strong and prices are firm. Local dealers quote as follows: Canada western oats. No. 2, 35%: No. 3, Me a hushel at lake ports: On. tario cats. No. 2, 20e to 35e outside: 35% out track, Toronto. Multiparies, No. 2, 35e 5e to 356, teed bastley, 66e a bushel; Amer-ican corn, No. 2, zellow, 57%; No. 3, 56; co. track, Toronto: rye, 16c; peas, 84c to 85c a bushel outside.

On the farmers' market oats are selling at 38c to 39c; barley, 58c to 60; rye, 69c to 70c; peas, 86c to 90c; buckwheat, 54c to 55c shel

a bushel. Montreal wholesale prices are as follows. Canada western oats, No. 2, 38c; No. 4, 56/o, to 37c; No. 2, Quebee white, 56/oc to 56/oc; No. 3, 35/oc a bushel; American yellow corn, No. 3, 56/oc to 57c; western harley, No. 4, 48c to 46/oc; feed barley, 47c to 47/oc hushel a bushel.

POTATOES AND BEANS

There is a firmness in the potato mar-let, which shows no signs of weakening. The demand is very active and the supplies not overabundant. Wholesalers at present quote 65c to 70c a bag out of store, and 50c

On the farmers' market potatoes are

On the farmers' market potatoes are sell-ing at 50c to 60c a bag. In beans the local market is steady with prices ranging from \$1.90 to \$1.95 a bushel for primes and \$2 to \$2.10 a bushel for

107 primes and 82 to 82.10 a bushel for three pound pickers. On the Montreal market wholesalers guote postatoses in car lots, 75c a bag, and 85 to 50c a bag in a jobbing way. Beans new quoted at 81.72 a bushel for three pickers. Trade in potatoes in Mon-treal is strong.

DAIRY PRODUCTS

DAIRY PRODUCTS There is plenty of butter coming into the market but prices hold firm, owing to the great demand. Wholesen the state of the follows: Choice creamery prints, Sciuble and choice separator prints, Sci to 36c; choice dairy prints, Sci to 35c; ordinary quality, lie to 18c a 1b. On the farmers' market choice dairy butter is selling at 28c to 28c a, th.

Prices are unchanged in cheese and large

Prices are unchanged in cheese and large cheese are quoted by dealers at 12c and twins at 12/c a lb. In Montreal the butter market is fairly steady and choice township butter is quoted at 23c, and seconds at 22c to 23c a lb. Cheese prices are firm with centerns model at 11% to 11% and westerns at 11%.

Cheese prices are firm with eastern quoted at 11% to 11% and westerns at 11% to 11% c a lb. HIDES

The following quotations are given by dealers for hides: No. 1, steer and cow bides, 10e; No. 2, Sey. No. 3, bit, call akins, 15e; nheepskins, 45e to 55e kallow, 65 to 5/4 e ib. At country points, 81 to 575 paying as follows: Sheepskins, 81 to 525 to 83; calfskins, 15e; horsehair, 35e a b. 83; calfskins, 15e; horsehair, 35e a b.

HAY AND STRAW

There is not an oversupply of hay and straw visible yet at the market, and what there is sells at good prices. Local dealers are quoting No. 1 timothy at \$12 to \$12.50 area, TAN NO: 2 at \$13.00 to \$11.50 at 100 of area, TAN NO: 2 at \$13.00 to \$11.50 at 100 of not, TAN NO: 2 at \$1.50 at 51.50 at 100 of the farmers.

to \$9 a load

to 89 a load. In Montreal, wholesale dealers give quo tations for hay and straw as follows: No. 1 timothy, 811 to \$11.50; No. 2, 89 to \$95.90, elover mixed, 87.50 to 88.00 on track Montre-al; baled straw, 85 to \$5.50 a ton on track Montreal

Montreal. There is a good trade in shipments of hay to Alberta and British Columbia going forward in Montreal, and good prices are being realized for even second quality hay.

EGGS AND POULTRY

EGGS AND POULTRY Three is a seady domand for eggs and poultry, the superior the latter article then a seady domand for eggs and and cold storage eggs at 26 to 27 a down, and cold storage eggs at 26 to 27 a down, the to 12 a 16, fowl, life to 27 a down, life to 12 a 16, fowl, life to 16 the intersed life to 22: ducks, life to 18 a 16, idressed 17 to 22: ducks, life to 18 and life eggs are selling at 35 to 40 and 14 to 18 and 14 art are selling at 35 to 40 and 14 to 18 and 14 and and 16 and 16 and 16 and 16 and 16 and and 16 and 16 and 16 and 16 and 16 and and 16 and



There is no marked change noticeable in prices or in the demand for horses. The following quotations are given: Drafters, 8200 to 8270: general purpose horses, 8100 to 8200: drivers, 8170 to 8220: expressers, 8200 to 8230: serviceably sound horses, 860 to san

Selects, 27c to 28c; straight receipts, 25c; choice quality in case lots, 23c to 23¹/₂c a

Prices for poultry are about the same in fontreal as in Toronto.

HONEY

LIVE STOCK

The stock yards have presented a fairly week, but there are signs of a failing off in the shipments from the west, owing to the threatened cold weather. There have been many shipments of feeders from the been many shipments of feeders from the west during the past week. Many farmers have purchased as many as they can han-dle and the tendency of prices for both butchers and feeders is lower. Milch cows are about the dearest proposition in the market at the present time and a good animal will fetch a sphendic price; lamsbut animal will not an and hog prices are slightly lower than and hog prices are slightly lower than guarding. Following

re dealers quotations: Export cattle-choice, 86 to \$6.25; medi-um. \$5.50 to \$5.90; ordinary quality, \$4.50 m. \$5.00 85 a cwt.

to 85 a cwt. Butcher cattle-choice, \$5.60 to \$5.80; m ium. \$5 to \$5.25; ordinary, \$3.50 to \$4.25. Feeders-\$5.25 to \$5.60. Stockers-\$4.50 to \$5.25. Canners-\$4.50 to \$2.00.

Milch cows-choice, \$50 to \$65; springers nd medium milkers, \$35 to \$45; calves and media 83.50 to 87.

Sheep-ewes, \$4.50 to \$4.85; bucks, \$3 to

Sile: Decker, 84.30 to 84.80; Dicks, 85 to 85.40; Iambs, 85.50 to 85.90. Hogs-f.o.b., 86.90; fed and watered, 87.25. The Trade Bulletin's London cable reads as follows: "Canadian bacon, 54s to 57s."

PETERBORO HOG MARKET.

PETERBORO HOG MARKET. Deterboro. Nov. 7, 1930-Danish hoga do-livered in England hat week totalled 44, 000. The delivery of hogs on the local market is heavy and the market weak. The George Matthews Co. quote the following prices for this week's shipments: fo.b. country points, 869 a cert.; delivered at abattor, 869 a cert.

MONTREAL HOG MARKET

ket. Everything this week was cleaned up at prices ranging from \$7.50 to \$8 a cett. for selected lots weighed off cars. Dreased are also lower in price but meeting with a good demand at the de-cline. Fresh killed abattoris stock is quot-ed at from \$11 to \$11.50 a cet.

Limited

Waterous Portable Sawmill

The difference of the second s

The Waterous Engine Works Co.,

BRANTFORD, ONT.

21

EXPORT BUTTER AND CHEESE

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

CHEESE MARKET

CHEESE MARKET London, Oct. 39-4075 boxes offered; no sales; hdddinth 926 to 11-16c. St. Hyacinsky, S. Ott. 29-382 boxes butter sold at 23/67. 0 Ott. 39-382 boxes butter sold at 23/67. 0 Ott. 39-382 boxes at 11 15-16. Stirling, Nov. 1.-787 boxes offered. All sold at 10 15-16. Woodstock, Nov. 2.act boxes offered ad-journed for the season. The board ad-journed for the season. Madoc, Nov. 2.-49 boxes offered all sold at 11 16-56 boxes, all colored; all sold at 11 Pleion, N. 4.-6reenteen factories board-ed 1145 boxes, all colored; all sold at 11

ed 1145 boxes, all colored; all sold at 11 3.160

Kemptville, Nov. 4 .- 259 boxes registered. Montreal, Saturday, Nor, 5-The market Montreal, Saturday, Nor, 5-The market here for live hogs is steady at the recent decline, and there is a good demand from all sources for the offerings on this mar-there is a good demand from all sources for the offerings on this mar-

Oards under this head inserted at the rate of \$4.00 a line per year. No eard accepted under two lines, nor for less than six months, or 26 insertions during twelve months.

SUNNYSIDE HOLSTEINS. - Young stock all ages.-J. M. Montle & Son, Stanstead Quebec.

ONE 2 VR. STALLION by Champion Bight Forward, Img. Cne 2 yr. fily by Barron, 198 thing. Tearling stallions and filles by thing. The stallion of the stallion of the mostly all from imported mAmm The (imp.) 2 years old filles gust received.-R. M. Holtby, Manchester P.O. and G.T.R. Biation: Myrile. C.P.R. L. D. Phone. SPRINGBROOK HOLSTEINS AND TAM. WORTHS.-High-class stock, choice bread-ing. Present offerings, two year old dur-ers, fresh and in calf. Young bulls. Five Tamworth boars from Imp. stock, ready to wean.-A. O. Hallman, Breslan, Ont.

1" 1

CLYDESDALE HORSES, SHORTHORN CAT TLE.-Large selection of best stock. Prices reasonable.-Smith & Bichardson, breed ers and importers. Columbus Out

CLYDE HORSES, SHORTHORN CATTLE-Young stock for sale at all times.--S. F Redmond. Peterboro, Ont.

RIDGEDALE HOLSTEINS.—For full partic-ulars in regard to stock and prices, ad-dress B. W. Walker, Utica, Ont.



YORKSHIRE AND TAMWORTH HOGS--Plymouth Rock and Orpington fowl.-A. Dynes. 434 Parkdale Ave., Ottawa.

ORMSBY GRANGE STOCK FARM, ORMS. TOWN, P. QUEBEC. - Importation and breeding of high-class Clydeedales a spec-ialty. Special importations will be made. -Duncan McSechran.

22



Headed by the great young sire Dutch-land Colamba Sir Abbelerk. Dam and days. He is the result of crossing Tdy Pauline De Kol. 28.4 (the best member of this famous family, with hear great dam of the famous family, sing and the great dam of in 7 days. Individually as great as his breeding. Full caives offered from one to 12 months old, from dams up to 25% (he. builts in 7 days.

EDMUND LAIDLAW & SONS Box 254 Aylmer West, Ont 60%

HOLSTEINS If you are wanting HOL-STEINS, any age, either sex, GORDON H. MANHARD, Manhard, Ont

Do you want a first class Cow or Heifer bred to a first class bull? Francy 3rd's Admiral Ormsby heads our herd. Dam, Francy 3rd, Canadian Champion Butter Oow. Sire, Sir Admiral Ormsby, eire of the world's champion 1 year old beifer. TF J. A. OASKEY, Box 144, Madoc, Ont

LAKEVIEW HOLSTEINS

Several bull calves sired by "Count Ren-gerredd Fayne de Kol," and one ready for service, sired by Brightest Canary. These calves are out of A. R. O, cows and are big and strong. Write for catalogue or come and see them. E. F. OSLER, Bronte, Ont. E-TF

RIVERSIDE HOLSTEINS

Eight bulls, 6 to 9 months old, sired by Sir Pietertje Posch DeBoer and Prince De Kol Posch: latter is the only son of cham-pion cow in dairy test Guelph, 1908 and 1909, and from R. of M. dams.

J. W. RICHARDSON Haldimand Co. Caledonia, Ont

LYNDALE HOLSTEINS

We are now offering for sale a 13 mor-old son of "Count L. Kol Pretertji Paul out of a 20 h. dam; also a son of mar-Hengerveid Korndyke, from an 18 h. cow Both choice individuals, fit for service.

Both choice individuals, fit for se 2.2-11 BROWN BROS. LYN, ONT. **EVERCREENS HOLSTEIN HERD**



Offers & no. to 4 yr. old offers & no. to 4 yr. old make a start of the start of the start and starts data whose data starts data starts data starts data whose

GEO. W. ANDERSON, Rossmore

"LES CHENAUX FARMS"

HOLSTEINS-Winners-in the ring and it the pail. Gold Medal herd at Ottaws air. "They combine Conformation and Produc

ti Bull and Heifer Calves from our winners for

DR. MARWOOD, Prop. D. BODEN, Mgr E-o-w-15-6-11

RIVERVIEW HERD

Offers Bull Calf born February 14th, 1910. Sire Sir Aaggie Beets Segis. Six dams in pedigree average 25.60 lbs. in seven days.

P. J. BALLEY Lachine Rapids, Que 6-10-10

HOLSTEIN CATTLE THE MOST PROFITABLE DAIRY BREED HUBSTEIN-FRIESIAN ASS'N OF AMERICA PLOSATION, SECY, BOX 140, BRATTLEBORO, YT 25-411

HOLSTEINS FOR SALE All ages, at half their value; the produc-ing kind.

Dr. Boll's Veterinary Medical Wonder cures inflammation of lunge, bowes and in every county. Write for a free trial 5: bottle. This offer only good for fod ays. Limited to goo bottle. 15:12:10 DR. BELL, V.S., Kingston, Ont

FARM AND DAIRY

AYRSHIRES

CHOICE AYRSHIRES Are Bred at "CHERRY BANK" few young bull calves for sale. Write for prices.

P. D. McARTHUR, North Georgetow

Howick Station on G. T. Ry. 15-9-11 Que.

"La Bels de la Roches" Stock Farm Hare are kept the choicest strains of AYRSHIRES, imported and home bred YORKSHIRES of the best bacon types. WHITE ORFINITON, WHITE WYAN-DOTTES and BARRED ROCK Poultry. HON. L. J. FORGET, Proprietor J. A. BIBEAU, E-6-7-11 Ste. Anne de Bellevue, Que.

AYRSHIRES

Ayrshires of the right stamp for pro-duction, combined with good type and quality. Write for prices. 0-22-12-10 R. M. HOWDEN, St. Louis Station, Que

BURNSIDE AYRSHIRES Are Well Known.

Are well known. They are from the best imported and home bred stock. They are true to type. They have good show yard records, as well as large records of milk and butter fat. Stock for sale. Write or come to Burn-Stock for side Farm

R. R. NESS, Proprietor, Howick, Que E W 15-10-11

AYRSHIRES-PRESENT OFFERING

A few good Cows from 6 to 10,000 lbs. milk per annum. Also bull calves, all ages up to 13 months, R.O.P. our specialty. JAMES BEGG, R.R. No. 1, St. Thomas, Ont

SPRINGHILL AYRSNIRES Imported and home bred stock of ages for sale Stock shown with greas success at all the eading fairs.

est ROBT. HUNTER & SONS

Mazville, Ont F-1.7.11 Long Distance Phone.

ONLY BULLS AYRSHIRES

One calved July 6, 1910, sired by Lessness ock Royal Monarch (Imp.) 24424-(6293) Also one 2% yrs. old., sired by Monkland Raising Star (Imp.) 2504-6720), now owned in Japan. Out of good cows.

DAVID A. ASHWORTH Maple Grove, Ont.

MISCELLANEOUS TAMWORTH AND BERKSHIRE SWINE. Boars and sows for sale. J. W. T. Corinth, Ont., Maple Leaf Stock Farm 15-7-11

TAMWORTHS AND SHORT HORNS FOR SALE Several choice young Sows sired by Imp. Soar, dama by Colwillow Ghice, Ganada's Joan, dama by Colwillow Ghice, Ganada's Joan (1997) and the source of the source and two years old Shorthorn heifers. First lase family. Excellent milking strain. 'rices right. Boar.

tf A A. COLWILL, Box 9, Newcastle, Ont

MAPLE VILLA STOCK FARM

We are now offering three bull calw rom extra good cows, sired by Sir Bee te Kol Posch. Will sell them cheap, old at once, before going into wint

rters. ist weaned—another batch of those fam-Hampshire pigs. E. C. GILBERT, Payne's Mills, Ont Near St. Thomas. Phone conenction at Iona

FERNDALE'S CLYDESDALES AND HOLSTEINS

LUMDALL 5 ULTUEJUALTS AND MUUSTEMS We are now offering for saile a number of bulks from 4 to 9 months old, sired by Korndyke King Schilliard, whose ten near est dama made 25 lbs. and over, of butter in 7 days. Also 40 sighten months old bulk. This lot is of good size and in first class condition. On giving motice visitors will be met at the 0.P.R. station. FIERMELLER BROS., Mount Elgin, Ont

All ages, at half their value; the produc-ing kind. JAS. MOTHERAL, Box 99, DRUMBO, ONT. HANPSHIRE PIGS READY TO SHIP At \$12.00 each. These are prize winners. with pedigrees. HELGON FOX, Harrow, Ont.

London, Nov. 6 .- Six factories offered 883 London, Nov. 6. Six factories offered esc cases of colored cheese; 658 cold at 11 1-16c. Canton, N.Y., Nov. 5.—1600 tubs of butter at 31c; 1900 boxes of cheese; no price. St. Hyacinthe, Que., Nov. 5.—350 pack-ages of butter, 24½c; 150 boxes of cheese at ages of butter, 24½c; 150 boxes of cheese at

10°.c: tub butter, 24%.c.

GOSSIP

WINTER FAIR ENTRIES.-Exhibitors at the next Winter Fair are reminded that en-tries should be made with the secretary, A. P. Westervelt, Toronto, as early as pos-sible. The following are the latest dates on which entries can be received for the off which chartened to be received for the different departments without the payment of penalty fees: Seeds, Nov. 12th; Live Stock, Nov. 19th; Live Poultry, Nov. 21st; Dressed Poultry, Nov. 24th.

POULTRY AT THE WINTER FAIR .- Over 4700 exhibits competed for prizes in the poultry department at the Winter Fair last December, and on these \$3200 were paid in cash prizes besides special awards of sil cash prizes besides apecial awards of sil-ver cusp, medias, goods. For the coming Fair a number of new classes have been added. A special prize list for poultry will be ready for distribution about Nov. 10th. This list contains 8500 in each, 30 silver cusp, also medah and goods. Value is about 8500. Poultry eshibits such nous compete for prizes worth hard to make their representation the Scentary before Monte their previous states of the Scentary before Monte their states of the Scentary before Monte the Scentary before the Scentary before Monte the Scentary before the Scentary before Monte the Scentary before the Scentary before Monte the Scentary before Monte the Scentary before the Scenary before the Scenary before the Scenary with the Secretary before Monday,

SALE OF SPRING VALLEY HOLSTEINS The dispersion sale of the Spring Valley Herd of Holsteins was very successful and realized compare favorably with realized at the other sales this fall The highest figure was given for Jenni Mutual Butter Girl, \$390, to A. C. Hardy Mr. Hardy also secured Gretchen Abbekirk De Kol for \$235. Other animals sold were as follows

Jennie Beryl Wayne, to Brown B



WANTED

A Pure Bred Poland China Sow from six to eight weeks old, with pedigree. Address, Circulation Manager FARM AND DAIRY, PETERBORO

COINS AND STAMPS



TO NASSAU STREET, NEW YORK CITY



November 10, 1910.

8259: Bose Butter Girl, to Proctor Griffin, 8150: Minnic Fvergreen, to G. H. Manhard, 8160: Minnic Fvergreen, to G. H. Manhard, 8160: Hicken, to Booth Bross, 8150; Freda Evergreen, to G. E. Sherwood, 880; Nannie Evergreen, to G. and M. Stark, Stark, Stark, 880; Neuberiand King s Lam End, to Fvetor Jonnie Mutual Veeman, to A. C. Bardy, 880; Neuberiand King s Lam End, to Fvetor to J. D. Tvuesdell, 857; Nannet Mutual, (J yr), to Q. Worden, 869; Paul Beryl Wayne, to George Boyd, 845; Prince Manuet Butter Boy, to R. Sturgeon, \$36; Ridean Nanuet, 1995; Nanuel M. Stark, Sta \$250; Rose Butter Girl, to Proctor Griffin.

Over and Over,"Again

There is nothing that counts in the business world so much as systematic repetition. Telling the same thing over and over again, is a way of fixing that fact in the minds of read-ers. If a man has the best herd of Holstein cows in his vicinity, if he has Jerseys of a strain that is known through-out Canada, if his Shorthorns carry the richest blood of the breed, or if his Ayrshires boast an ancestry that takes them back to the patrician herds that roamed over the hills of Scot-land, whence come the greatest families of that breed—if any one of these things is true it is of supreme importance that the man who can lay claim to it should constantly reiterate that fact so that the reader will ul-timately associate his name with that particular statement. It has been truly said that the mird of the

It has been truly said that the mind of the average reader are inclined to worship the spectacular and the last state-ment that we hear always hings plat him to been said before. Hence it is of such paramount importance for breeders of live stock to use space resultarly in stock to use space regularly in the columns of a farm paper like Farm and Dairy. Thus it is that the keen, far-sighted is that the keen, far-sighted breeders use these columns regularly.

gularly. Breeders of pure-bred dairy cattle who are out to make a success and to attain satisfac-tory results owe it to them-selves to use the live stock ad-vertiging columns of Farm and Dairy, and to use them regular. Dairy, and to use them regularly. Ninety-five per cent. of the readers of Farm and Dairy are directly interested in dairying. That is why breeders of dairy stock particularly are reaping such satisfactory returns.

to A. Bushfield, \$37; Nanuet Gerben, to W. J. Scott. \$55

J. Scott, §55. The four Dorset sheep brought §85.75. Five Tamworths sold for §87.50. The auc-tioneer was Mr. G. N. Young of Brock-ville.

SUBJECTS FOR DEBATE

SUBJECTS FOR DEATE An indefinite variety of subjects which have come up for debate before the Min-nesola Parmers' (lubs, is indicated by the following, taken at random from some re-cent monthly reports sent to the Statesian Division. They may prove of service in the way of suggestion to our Parmers' (This debaters, and hence are reproduced for their hemefit: benefit:

denieria, anti-denieria, anti-Killing quanck Grass; Dairying: Coop-erative Breeding: Comolidation of Rural-Schools; Parm Buildings; Shipping Pro-duce; Would it be beneficial for the Farn-ers to Organise!, Preparation of Soli; Po-tato Cuiture: Cheene Making: John Bands; The Homes Phy: Cooperation in Bay-ing; Surface Cuitivation; Silos; The Split-Log Drag; Cubus; Cooperative Store-houses; Local Corn Growing; Greally to Animals; Good and Bad Seeds; Cubrer, In-Animals; Good and Bad Seeds; Cubrer, In-Animals; Good and Bad Seeds; Cubrer, In-Animals; Good and Bad Seeds; Cubrer, In-Maring Homes Euroundings; The Coopera-tive Market Association and the Shipping of Eggs. of Eggs

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no HOLSTEIN-FRIESIAN NEWS

Far m and Dairy is the official organ of The Canadian Holstein - Frieslan Association, all of whose members are readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this solumn.

man an man

A. C. Hardy of Brockville, Ont., in a re-cent letter to Farm and Dairy, states than the has just bought from Stevens Broa, a well marked bull calf, a son of King of the Pontiace, out of Pontia Artis breeding, which he states can hardly be equalled he any bull in Ganada. by any bull in Canada

MR. HIGGINSON'S DISPERSION SALE

MR. HIGGINSON'S DISFERSION SALE The 90 head of Holsteins offered at Wm. Higginson's sale realized \$12,657, or an av-crage of \$13,641 per head. The herd bull, Sir Pontiac Clobidic Korndyke, 850, howagat the top figure, being sold to John brought the top figure, being sold to John brought the top figure, being sold to John brought the top figure, being sold to John top figure, bull, and the sold the sold being est priced cow, Nether and Histor of Chester, W. D. Allicon of Chester, Hutton, Cardinai, Ont., for \$500. The nigh, est priced cow, Netherland Queen Jane, sold for \$500 to W. P. Allison of Chester ville. Ten cows sold for \$150 and over. Only four of cows sold for \$150 and over. Only four of the animals offered sold for less than \$50

The highest prices realized for females wors as follows: Netherland Queen Jane, S50, to W. P. Allion, Chesterville, Allio S50, to W. P. Allion, Chesterville, Allor Level De Kol, G. Grey, Ventor: Oxford Jewel De Kol, G. Grey, Ventor: Oxford Jewel De Kol, Cuesnie L. 2820, to Gor-don H. Manhard, Manhard, Ont.; Rether-land Min, S20, to M. E. Woodworth, At-kins' Depot, N. H.; Mabel Bell and, S200, to W. P. Bell, Hritannia, Lullie Beryl Wayne, S135, Gordon H. Manhard, Mr.; Georgina E., S135, Gordon H. Manhard, Mr.; Georgina E., S136, Gordon H. Manhard, Mr.; Georgina E., S136, Gordon H. Manhard, Mr.; Georgina E., S137, Gordon H. Manhard, Mr.; Georgina E., S138, Gordon H. Manhard, Mr.; Georgina E., S139, Gordon H. Manhard, Mr.; Georgina E., S139, Gordon H. Manhard, Mr.; Georgina E., S130, Gordon H.; S130, Go the females realized good prices, the average being about \$150.

Si56, Gordon H. Manhard, Manhard. All or the females realized good prices, the av-erage being about \$150. Five of the 21 males offered realized \$100 or over, the bighest price heing paid for the state of the Abbekerk Pontiac Korndyke, \$120, to 1 Abbekerk Pontiac Korndyke, \$120, to 1 Rothwell, Ottawa . Inka Korndyke, \$120, to 1 Nothwell, Outbard, Alfonei, Nothwell, Nothwell, Nothwell, \$1 Nothwell, Carliela, Chesterville, P. B Wilke, Athana; John Willoughby, Smith * Falle, S. Holingsworth, Athenei, J. G State, Nakey, Ottawa, Markon, Nathwell, S. G State, S. State, Nathwell, Athenei, J. G State, S. State, Nathwell, Athenei, J. G State, Nathwell, Nathwell, S. G State, Nathwell, S. Markon, State, Nathwell, S. State, State,

THE WARD SALE OF HOLSTEINS

The auction sale of property of the late George Ward, on October 28th, was a great George Ward, on October 32th, was a great success. Attendance was large, includ-ing buyers from a distance. Hidding was rapid. Auctioneer Welby Atimas of Brant ford as usual proved himself capable of holding the attention of the large crowd. Splendid prices were realized. The interest of the buyers was centred principally on the Holstein-Friesian cattle, which were in coccelent condition. The following is a list

the Holstein-Frienian cattle, which were ic excellent condition. The following is a list of the animals sold: To, R. J. Kelly, Tillsonburg, Ont: Nierop Abbekerk Lass, 1 yr 4 mos, 3520; Margue ersytills Bessle Queen, 3 yrs. 9 mos., 8500; Hessie's Queen, 7 yrs. 5 mos., 8500; Hessie's Queen, 7 yrs. 5 mos., 8500; Hessie's Queen, 7 yrs. 5 mos, 855; Roxie Wiffred Posch, 1 yr. 6 mos, 856; To G. E. Smith, Scotland, Ont, Maggie Clark, 3 yrs. 7 mos, 825; Maggie Faforit, Smith, and Dremet, Dundas, Ont. Elleen

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7 mos. \$163. Smith and Dyment, Dundas, Ont., Elleen and of Avondale. 9 yrs., \$200; B. Gray, Syringraik, O. Nut., Roith Fowds, Syrs. 3 mos., toria Posch De Kol, 2 yrs. 3 mos., \$200; W. H. Cherry, Garret, Ont. Elleen Ennice Fa-forit, 18 days, \$95. To W. Howverth, Hartford, Ont. Wiessa-To W. Howverth, Hartford, Ont. Wiessa-thal's Pride, 8 yrs., 485; W. S. Hamas?? W. Bichardson, Galedonia, ont., Adelere

J. W. Richardson, Caledonia, Ont., Adelene Mildred Faforit, 7 mos., \$50: W. J. Bailey, Nober, Ont., Gano's Faforit Butter Boy, 3

yrs., \$130; W. Chessor, Eglinton, Ont., three grades, \$105, \$100 and \$97

HOLSTEIN-FRIESIANS AT CHICAGO

HOLSTEIN-PRIESIANS AT CHICAGO Dairy shows can always depend on the Holtenin-Priesians lending support con-sonant with their numerical support con-black and white Holland breed is retrac-sented at almost every fair or exhibition having a classification for it. Occupying for in many solution in commercial dairy for in many high class shows this made some notably high class shows this fail at the chief state fairs, and its large and uniformly created by Show hid in the Obleseum National Dairy Show, hid in the Collseeum National Dairy Show, hid in the Collseeum at the chief state rairs, and its large and uniformly creditable exhibition at the fifth war in Dairy Show, held in the Collscom war in Dairy Show, held in the Collscom impressive public appendix for the conclusion to impressive public appendix the fifth of productivity of the progress of the breed than in popularizing striking individualities, of ords, the holescom Public face making and standy gain in public face making and standy and the state of admiration for some of the other breads. Geograph's hy it was suggestive of the wide distribution, but it state and the state of admiration for the bread at the state of admiration for the state of the state of admiration for the state of the state of the state of the state and the state of the state of the state and the state of the state of the state and the state of the state of the state and will quite a distate state to the type which is now in high favor. He as a level hack, plenty of substance and as pleasing under the hand. Sir Gosan's plansing the state of the state of the state of the state plansing the state of the state state of the state of the state of the state of the state state of the state of the state of the state

a good top.

THE FEMALES

a good top. THE FEMALES It is customary for the females to out class the bulls at shows of the dairy breeds, and there was no exception to the true here. From the aged cows atown to the junior heifer calves the cardinal me-true here. From the aged cows atown to the junior heifer calves the cardinal me-true here and the state of the state of the aged cow class were primed down in this aged cow class were primed down in this aged cow class were primed down in this index, and Jewel Duches, with a large abdomen, a 75 inch udder, square and of the testure, and milk veins of marked tion. Not to her snool and premier point cow with a fair udder, the third prise entr-reliuing to the smaller and more refines type. A class of eight three year olds con-truets and the countemance and in other of room to occupy, distinguished Castin Colariba Johanna. Quality was written Colariba Johanna. Quality was written bowr. When the short her herd here a type, which pleases the breeder's eye is a type distinguished Castin cave the state of which or shore a state of the shown. When the short here had here at type, which pleases the breeder's eye is the standing skin, covered with a decided parameter of black har, eventory a state of when the shore of the cast funding skin, covered with a decided parameter of black har, eventory a state of the state, and cover of black har, eventory and the state, and the set of the state, eventory and the state, and the state, eventory and the state, and the state of the state, eventory and the state of the state, eventory and the state of the Lady Koradyke De Kol Ormsby. Her soft, easy tanaling skin, covered with a decided preponderance of black hair, envelops a form that spells efficiency at the pail. Ed-na Pair Johanna is strong of spine, skeed udda-hiry lines, and wrins a fair-sized udda-hiry lines, and wrins a black quite a variety of sizes and tygs included quite a variety of sizes and tygs included index in the start of the size and the size of the making his selections. He sought dairy indications first, insisted on fane, soft, meimaking his selections. He sought dairy indications first, insisted on fine, soft, mel-low skins and took due account of consti-tution. North Star Sadie is straight along the top, is full of promise in her dairy fix

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drought. Even sligge from mature corn is, how ever, not a properly balanced food, and clover or a flafla hay and a little Byrar abouid be fed with it. Alfalfa is better than clover to mix with corn sligge, and than clover to mix with corn sligge, and that is is possible to omit the bran Alfalfa is is possible to omit the bran alfalfa science of the exprised with a slight of the science of the exprised with a slight of the science one of the exprised with a slight of the science one of the exprised with a slight of the science one of the exprised with a slight of the science one of the exprised with a slight of the science one of the science of Alfafra is a wonderful plant, and some one of the varieties will grow almost any, where is the United States; while it is Fruein bergen who have been planted ready should try it in a small way; if he can make one are a success, he can try a larger field. Corn is our drought-resisting crop; and if the moditure in the ground fine dirt mulch, it is surprising how limit rain is required to make a good crop. If and dirt mulch, it is surprising how little rain is required to make a good crop. In times of drought and when the corn has grown too tail for the two-horse cultiva ter, a fine tooth single walking cultivator will go far towards irrigating the fields.-Makoolm J. Gardener, Supt. of Advanced Paceistry. Registry

GOSSIP

J. F. Parsons & Son, Barnston, Que., re-cently shipped Sh head of Ayrahires to Brandon, Vermont. These actile were of all ages. They went to Chase & Beeman, Porest Park Farm, Brandom, This is the largest shipment of purebred Ayrahires, or in fact of any breed, ever made from Quebec into the United States.

At the last Canadian National Exhibition At the last canadian National Exhibition (Toronto), the Aspinwall Mfg. Co., of Jack son, Mich., who have a Canadian branch at Guelph, Ont., were for the second time awarded a bronze medal on their exhibit This firm manufactures potato machinery sively and their machines pose d wide reputation for merit world

IMPROVING QUALITY OF BUTTER

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the quality of their ercam depends on their separators. To do thorough skinning the hand separator should have more ar-tention than it usually receives. It cannot start unless run with a steady mo-ton start unless the perfectly level. Alo-ter the start was an another the start and hence must be perfectly level. Alo-se the start was an another the start of the start was an another the start of the start was an another the start wrong oil in a separator he right and the difference between good and poor but-ter, and, realizing that thousands of doi-ted was another the start was an another the start and the start was an another the star-ter and run and the machine that they was and cut, and the machine that they was and cut, and the machine that they was and cut, and the machine that difference prosesses outlies the start developed and year theorem of the start mark and the start for the prosesses and the start was and year the start and the machine that they was an and cut, and the machine that they was an and cut, and the machine that they was an and cut, and the machine that they was an and cut, and the machine that they was an and cut, and the machine that they was an and cut, and the machine that they was an and cut, and the machine that they was an and cut, and the machine that they was an and cut, and the machine that they was an and cut, and the machine that they was an an an order the scaled. feed proverses was cut and the start the start developed the transformer the scaled. The start was an cut and the machine that they was an cut and the machine the scaled. feed the scale the theorem and strength of year theorem and the start the scaled. The scale theorem and the scale the scale the scaled scaled theorem and the scale theorem and the sc



LEARN WIRELESS & R. R. TELEGRAPHYI Bhortage of fully 10,000 Operators on ac-count of 8-hour law and extensive "wire-less" developments. We operate under diversity of the state of the state of the state index of the state of the state of the state ded write for estate or - NATT TELE Red. Write for estate or - NATT TELE (RAPH INST, Chichmark, Philadelphis, Memphis, Davenport, La, Columbia, S. C.; Portland, Ore.

usseenannannannannannannannannannannan PEDLARIZE FOR FIRE-PREVENTION

BE READY for fire, by all means. Provide every possible means for putting it out. Equip your house, your barn, all your buildings, with water-buckets, chemical extinguishers-hose and water pressure

if possible. But pay even more attention to fire-prevention? Build, or remodel the buildings you have, in such a way that fire will have the least chance to harm them. Lessen your fire riskespecially if you live in a frame house.

The Average Frame House Is A Fire-Trap

Fire did \$56,606 damage in Canada every day of 1909! More than sixty per cent. of that great loss was on frame buildings! Naturally. For even in the cities, with their up-to-date fire-fighting outfits, firemen count the ordinary frame house a 'goner' once the Ranes get available in the second se tonight, would you and your folks get out alive?

If your barn caught, would your stock be saved ? And, even if you were lucky and only the buildings suffered, would insurance repay you for your losses? You risk a very great deal if you live in a frame bars: or if you have anything valuable in a frame barn. Yet you can do much to prevent fire, And you can, easily and cheaply, practically isolato every room in your house so perfectly that—if fire does start in any room—the fire can be confined to that room alone. Pedlarizing will do that, and more.

Pedlarizing Reduces Fire Risk Fully 80 Per Cent.

"Pedlarizing " is sheathing any building, inside and out, with **Fireproof** sheet **Steel**—in the several forms illustrated by the pictures here. For the roof, Oshawa Steel Shingles, guaranteed to make a good roof for 25 years or a new roof free. For the outer walls. Pedlar Steel Siding—surfaced to imitate brick, cut stone, dressed stone, etc. For the ceilings and sidewalls of the interior, Pedlar Art.Steel—more than 2.000 beauti-fully embosed patterns. A balloon frame of cheap lumber, with the necessary triin, flooring, and some

furring, and these Fedlarizing materials, make a stauncher, handsomer house than any frame building ever was and make the building eighty per cent. less flable to fire damage than the usual type of betch building. Such a structure is practically fire-force and the structure is practically fire-function of the structure is practically fire-nors economical in first- cost-and cheautiding is nost economical in first- cost-and cheautiding is even a brick building in final cost, because it will outlast one. outlast one.

Fire-Prevention By Pedlarizing Costs But Little

Whether you are crecting a new house or harn, or you think of repairing an old one, you will do well to inquire well into this Pedlarizing proposition. Con-sult with us first, and then with your builder or architect. Hold no prejudice against sheet steel for interior fluish because it is comparatively new; don't interior fluish because it is comparatively new; don't solid grow outer walles four this most ing about Pedlag Siding for outer walles four this mactical, next you the reasons for your choosing this mactical, next you the reasons for your choosing this practical, most economical and most effective way to **prevent** fire and to minimize fire-damage to the lowest degree. Let us

make it plain to you that many of the so-called "fire make it plain to you that many of the so-called "firs-proof" buildings in the big cities are not so well-guarded against fire as a frame-skeleton plated with Pedlar steel in the way we have outlined here. Any fire-insurance agent will inform you on the difference in the rate as between a frame house and a Pedlarized house. You will then see that this one litem alone such a constitution of the cost of Pedlarizing. Yet actually cheaper by twenty per cent, than and above is actually cheaper by twenty per cent, than and how is frame buildingt. Nor does it require experts to erect it. Consult us for full details. Write us to-day.

Pedlarizing Does Much MORE Than Fire-Proof

Protects

Pedlarized buildings are wholly from dampness. The inner wal

Protects against will not "sweat." because there is a dampness. The inner walls adampness dead-air space between them and the Pellar Siding of the outer walls. And this same dead-air space, formed by the studding, makes a perfect barrier to dampness penetrating from the outside. Oshawashingled roofs are rain-tight, as well as fire-proof and **lighting-proof**; and they are for 22 years) they, will not sweat on the under-side as common shingles must.

Cattle thrive better in Pedlarized barns. You save on feed, too, by Pedlarizing; for the stock do not have to eat so much for bodily warmth sake. You see, Pedlarized buildings are easier to keep warm in

the cold winter. The sheer sheet steel that armors them against fire also helps har out the cold. Pedlarizing makes houses wind-In fuel saved alone you regain your outlay. Shields And, in summer's blazing sun, you will find the interior of a Pedlarized building cooler than any brick house in your neighborhood. Roof, walls and ceilings of heavy sheet steel bar

heat in your neighborhood, kooi, walls and ceilings of heavy sheet steel bar the entry of the heat. Cooler in summer; warmer in winter; dry at all seasons — this is what Pedlarizing does for houses, barns, any building. Makes And it does more. For Pedlar Art for the seasons and Side Walls, beauti-houses fully emiltings and Side Walls, beauti-these ceilings and walls, without a creviee or a seam to harbor dirt, dust, germs or vermin, can be washed as you would wash a pane of glass! If there has been disease in a Pedlarized room, tho house as bekept clean with the least effort. Pedlar-izing makes buildings healthful—as well as fireprool, damp-proof, warmer in winter, cooler in summer. damp-proof, warmer in winter, cooler in summer,





Pedlar Steel Siding armors a building against fire and wet. Handsome enough for any place. Many patterns.



Pedlar Art Steel Ceilings adorn and protect. Cannot crack. Seams invisible. Hundreds of new styles ready.



Pedlar Art Steel Side Walls are sani-Washable. Beautiful to tary. look at. Easily put on. Fireproof.



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