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Boys, Send One Subscription, and We Will Send You a Knife.

a knife you will be proud of and one which you will find strong and useful.

Of course, you are a hustler and you will soon have this knife in your pocket. Let us hear from you soon.

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TORONTO, 15 JANUARY, 1907.

No. 2.

Expending Money for Horse Breeding

SOME of the horsemen of Toronto seem to be very much agitated over the organization of the new Ontario Horse Breeders' Association, and the fact that it will control whatever grants may be given by the Government to advance the horse industry of Ontario. In our opinion they have little or no ground for complaint. The old Canadian Horse Breeders' Association for years controlled this grant, but it had so many horse societies of one kind and another grafted onto it that it was no longer recognized as a breeders' organization as defined by the Agricultural and Arts Act. Moreover, these non-breeders' societies that were tacked on from year to year, almost one every year for the last few years, were managed and controlled by people in Toronto who had no direct interest in horse breeding whatsoever. No one for a moment, however, questioned their sincerity in endeavoring to do something to forward the industry, but their efforts were largely of a local character and they in no way represented the rank and file of the horsemen of the province.

Something, therefore, had to be done to straighten matters out, and the Government in its wisdom decided upon a new organization identified only with the horse breeding industry of the province, thus piacing this important branch of animal husbandry on the same footing as the cattle, sheep and swine breeders' associations, through which Government grants are expended for the benefit of these classes of stock.

If our city friends will reflect a little they will see that it is only by encouraging the breeding of better animals that a Government can best help any branch of live stock husbandry. An organization of butchers in the city of Toronto, because they handle the finished beef animal, is as much entitled to representation on the Cattle Breeders' Association, and to have a say in how the Government grant to that organization should be expended, as are some of the local horse societies that have representation on the Canadian Horse Breeders' Association, and up to the present time have had a say in how the Government grants to that association

The kind of work that will do most at the present time to improve the horse industry of this country will be that which will best reach the rank and file of our farmers and induce them to give more attention to breeding a better type of horse.

improved breeding stock into the ed and to carry on an educational campaign that will induce farmers to use better sires and better mares for breeding purposes. The main object one of the important channels through which public funds may be judic-

Relieving the Farm Help Scarcity

still hampers the eastern farmer in successfully carrying on his farming operations, the situation is, perhaps, not so acute as it was a few years ago. True, good reliable experienced help is not any more plentiful, but there has been, especially during the past year or two, a larger supply of

Renewal Time

At this season of the year a many subscriptions to FARMING WORLD expire. World expire. ook up the address on the wrapper of this issue, and if your subscription is due you vill confer a very great favor by having your renewal sent in early. Also look up our club-bing and premium offers in this issue. They will save you money.

RENEWAL OFFER

Two years' subscription for \$1.00 One renewal and one new yearly subscription. . . One renewal and two new yearly subscriptions 1.25 One renewal and three three months' trial sub-Do not delay. Do it to-day.

inexperienced help which our farmers are making use of to the best of their ability. The Farm Labor Branch of the Ontario Department of Agriculture and other reliable agencies have been successful in bringing in willing to work on farms, though knowing little or nothing of the duties required of them. These have been distributed through the regular channels among the farmers of the province, and, though inexperienced, have undoubtedly been of great benefit to the farmer.

Last week the announcement was made that the Central Emigration Board of Great Britain, which is practically under the control of the British Government, will engage in the work of bringing the unemployed of the old land to this country to work

on farms. \$1,250,000 has been placed in this work, and it is expected that from 10,000 to 12,000 people will be induced through this agency to settle in Ontario during 1907, Mr. Robert Verity, 57 Simcoe Street. Toronto, has been appointed chief agent of the for this special work.

While liberal assistance will be given towards assisting the unemploynot be altogether a work of charity Every man, woman or child placed on a farm in Ontario will be kept track of, with a view to having the money advanced returned as soon they are in a position to page it. But this will not be the on-The treatment received as when kind of service rendered the and a change advised if necessary In other words, this Central Emb tion Board will, through its to sentative, keep in close touch everyone placed on farms by

The rules and regulation under which the Board works very strict as to disease and mental and moral character. Every one must pass a strict medical examination before history will be looked thoroughly into and a certificate must be presented from the chief of police of their place of origin as to their moral character and standing in the district. Already a few have arrived and are men of good character, able and willing to work. They will begin to arrive in larger numbers in February, when the real work of placing them on farms in Ontario will commence.

It is the intention of the British Board as far as possible to place their people on farms through the Farm Labor Bureau of the Ontario Department, which has already a well established agency for securing the names of farmers desiring help. This is wise. To multiply agencies for distributing farm help would lead to confusion, and if it can be done satisfactorily every interest will be better served by an active co-operation between the British Central Emigration Board and the Ontario Farm Help Bureau in this work. The latter has engaged the Salvation Army to take charge of the management under Government supervision of the new immigration shelter at the corner of Peter and Wellington streets, Toronto. The Government guarantees an average of 300 lodgers per week the year round. Preparations are therefore being made to receive a 'arger number of immigrants this year than in the past and it looks at the moment as if the help problem will not be so serious a one to solve during the coming summer, though farmers should not expect too much in this connection.

Live Stock Arena Badly Needed

The arena question will not down. Every stockman is interested and sees the need of such a building in which to hold winter exhibitions of all kinds. Just now arrangements are being made for the Spring Stallion Show in this city, and the only available place is the repository, which as far as it goes, is very good, but it lacks one important thing, and that is size, and this will be the more noticeable this year in view of the light horsemen joining with the heavy-draft men in holding a united stallion show. It is somewhat of a reflection upon the efforts of those

tizens of Toronto who have been pylas to have some say in how ent grants in the interest of 'eeding should be spent, that the ve not been able during all the ars to secure in their own city aby and ample in every way for the ding of this important stallion pl, and also the annual spring show, which, we are sorry to abnot be held this year because the building is not available purpose. If they really wish for th to do something to benefit the horse

A discussion of the arena proposal naturally brings up the question of the advisability of combining the winter fair and stallion show. In many ways a combination of this kind would be beneficial, but it cannot be brought about until a suitable arena and the necessary accommodation for exhibits are provided. The present buildings at Guelph can barely accommodate the winter fair, and that only in a way that is far from satisfactory, let alone a stallion show as well. The city or town, therefore, Guelph included, that will in the next year or two erect a suitable arena with the necessary accommodation will secure an annual winter exhibition of live stock at least second only to the great Chicago International, and perhaps equal to, if not superior, to it in many respects. The Government might well grant liberal assistance to a project of this kind, provided it is located at a point where the interests of the whole proxince will be served. We have reached a stage in connection with our live stock industry when a step in advance must be made. Let those interested on the

wards securing somewhere and somehow a suitable areas in which winter exhibitions of live stock and, if need be, dairy and fruit products may be held. This is the one thing needful at the present time to round out the business and make it of the greatest sales to all temperated.

A Well-deserved Honor

His many friends throughout Ontario will learn with pleasure that Mr. Robn Beth, ex-M.P., Bowmanville, has been called to the Senate. It is a well-deserved honor and a tribute to the agricultural and livestock interests of the country, which he so

Mr. Beith was born in 1843 in Durham county, the west riding of which he represented in Parliament for several years, retiring at the last general election in favor of Mr. A. B. Aylesworth, now Minister of Justice. He



HON, ROBERT BETTE

has remained a farmer all his life and has made a specialty of pure bred stock. As a breeder and importer of Hackney horses, he holds a first place on this continent. His horses have on many occasions brought champion honors to Canada, won under the strongest kind of competition at the New York, Chicago and other leading American horse shows. The Waver ly stables, thanks to Mr. Beith's careful selection and excellent judgment, have a reputation for good stock that has made animals purchased therefore neight becautify over

THE FARMING WORLD desires to tender to Mr. Beith its sincere congratuations upon his well-deserved promotion. It is to be hoped that it will be the forerumer of similar promotions in the future and that agriculture and the farmers' interests will receive the recognition they deserve, both in the House of Commons and in the Senate

EDITORIAL NOTES

The total number of sheep in New Zealand on April 30th last was 20,-

108,471, as compared with 19,130,875 on the same date in 1905, an increase for the colony of 927,598

A model veterinary college is talked of for the Union Stock Yards, Chicago. The students at such a college would have an excellent opportunity to study the diseases of live stock as shown in the large number of animals handled every year in the yards, though the percentage of diseased ones is not large. The object of the college will be to educate competent meat inspectors for the stock yards and the great abbaties elsewhere.

The Ontario Government is said to be considering the advisability of establishing at least two agricultural schools at suitable points in the province. They will be miniature agricultural colleges, though how far they will go in the study of agriculture is not stated. It is just a question, however, whether further effort in the way of agricultural education should not be directed more towards encouraging the study of agricultural subjects in rural, public and highschools rather than in developing new institutions for this purpose.

A Familiar Figure Gone

The death of Captain W. F. Mc-Master removes a familiar figure from the Parliament Buildings in this city As secretary of the Agricultural Department he was well known to the officers of agricultural societies and other bodies receiving monies through the Department. He compiled the badies are ports received from these bodies and in many ways his work came in direct touch with the agriculture of the province. He entered the service of the Department in 1806, where he has worked faithfully ever since, dying at the good old age of 55. He was the first president of the Toronto Industrial Exhibition, and has been an honorary director ever since. The kindly and cheerful old man will be greatly missed by a

Lucile was making her first visit in

"What's that?" she cried, as she saw the fireflies.

"We call them lightning bugs.
Didn't you ever see any before?"
"No; the bugs in our town ain't lit yet."

Be sure and read the list of piano bargains which is given on the outside back page of this issue.

A little Cleveland for of three years was put to bed, her first night in New Jersey, by her mother, with the words, "Now go to sleep, darling, and remember the angels are thying about your little crib and keeping you from harm." A few minutes later the patter of little feet was heard and a little white-robed figure emerged from the bedroom. "Why, darling, what's the matter?" said the mother. "I don't like the angels," sobbed the little girl. "Why, dearie, why not?" "One o' the angels by me."

Agriculture in Ireland*

The efforts of the Department of Agriculture in Ireland to improve the horses and cattle are similar in principle to the scheme described for the swine, in December 15th issue. The horses of the country generally are not inferior, but the bluk of the breeding has tended towards producing horses suitable for the saddle breeding has tended towards producing horses suitable for the saddle breeding has the produced by an effort to produce superior lunters—which command very high prices—but instead of nunters many of them are only weak and inferior saddle horses, and quite unfit for general farm work. This has resulted in the demand so often heard: "Let the Department give us the old

IRISH BRAFT HORSE,"

hair on the legs. To meet the crying demand the Department of Agriculture is attempting to evolve a similar breed of horses, but in order to do so resort is had to the lighter and cleaner bound type of Clydesdale. It will probably consume some years before the experiment reaches a suc-

The Destribent sometime since authorized two or three expert horse-men to discover if possible some of these horses, or those having the same type, A mare was purchased, said to be a typical specimen. She was without a pedigree, aving changel hands several time. However, at a later date, the pedigree was searched out, when it was found she was sired by a registered Clydesdale. Some in Ireland have a prejudice against this cross, perhaps from experience of some earlier crosses of the coarser sort among Clydesdales, such as were common in Canada media.

fee, which is not less than £2 nor more than £3, is paid by the Department, thus enabling those whose mares are limited, and hence liable to use an inferior sire, to secure the very best in their county. In other place, premiums are allowed, as in respect to bulk error ways public attention is drawn to the subject of improvement, and much real encouragement given.



Coanginara Pony Mares at one of the Department's Stud Farms

day farm work, with weight enough to handle a reasonable load, yet active enough to be useful in driving the

gig or jaunting car to town.

No one seems to know how they were produced, but the best evidence were produced, but the best evidence goes to show that two brothers liv-ing near each other originated them and supplied the demand for many years. Their families finally passed out of existence and the horse breed-ing establishments were broken up, with no one to take it up again. The horses were medium in size, having strong but clean limbs, without long hair. They had some style and were active in their movements. The body

draft power.
Undoubtedly they correspond to
our general purpose horse, minus the

"This is the fourth and last of the series of articles on this subject writ-ten especially for The Farming World by the Hon. John Dryden, one of His Majesty's special commis-sioners appointed to investigate the condition of agriculture in Ireland during the past summer.

what the breeding is, so long as the type is created and continued. The experiment will be watched with

regulations prescribed in the publish-ed rules. When it is decided that a sufficient number of stallions are supplied by private individuals in any county, then the Department encour-ages their use by selecting, under certain rules, a number of the most superior mares owned by farmers, calland among the poorer farmers, whose assessed value does not exceed a sum appearance. They are of the pony sort, as the illustration shows, but are wonderfully fleet of foot and carry their load with a vim and determination really wonderful. A couple of good specimens are in use at Glasnewin Agricultural College, and the writer can testify as to their excellent matrix processing. excellent qualities, having proved it by actual experience.

by encouraging the breeding or intro means to purchase high class bulls for the use of small farmers." The amount provided by the Department for any given county depends on three things: 1st, the special needs of the locality; 2nd, the amount pro-vided by local authorities; and, 3rd, the proportion which the local con-



The nine bright children of one Irish home



Cutting peat for fuel.



of the particular section to render assistance. Unless under very special circumstances no aid is given where the local authorities fail or refuse to

contribute.

The joint funds of the local authorities and the Department are administered by a body called the Committee of Agriculture, appointed by the county council of the county. The clerical and other work is performed by a secretary, who directs and handles all the various schemes, devoting his whole time, for which he is paid a regular salary. He is appointed by those the country and efficiency of the country and the count

the county committee.

Upon the energy and efficiency of these secretaries depends very largely the quality of the work and its success in any given county. No person can act as secretary, nor can any scheme be carried out, without the approval of the Department. The Department has power to make loans in exceptional circumstances for the purchase of bulls, but generally this is left to individuals. The largest amount of money is given in sid of

PREMIUM BULLS

-that is, approved bulls for which —that is, approved buils for which a bonus or premium is given to the owner of £15 per year to recompense him for the service of thirty cows taken in at one shilling each. This scheme brings the opportunity to obtain superior blood to the poorest owner of a cow, whether he be farmer or laborer.

farmer or laborer.

About 900 approved bulls were scattered over Ireland in 1906, costing the Department well up to £14,000. In other words, the country pays 10s, for every better bred calf produced under this scheme. The bulls used are all inspected and are really useful animals. A fair sample is seen in the illustration.

These constitute the schemes for the improvement of the live stock in Ireland. But the Department of Agriculture does not stop here. They render a similar service in

HORTICULTURE

as well as in general agriculture. A farmer has only to indicate his desire to lay out, plan and indicate his desire to lay out, plan and indicate his desire agriculture. A farmer has the expert of the Denartment appears on the scene to lay out his grounds to the best advantage, designating the varieties best adapted, and superintending the care of it for three years. The trees are furnished at the lowest wholesale price, so that where the farmer has spot every step of the way.

No important branch of agriculture is neglected, and I question if in any other country the officials in charge show a keener interest in the farmers' operations than does the Department

operations than does the Department of Agriculture in Ireland. The improvement at first will be

(Continued on Page 52.)



Four Premium Bulls selected in connection with Government live stock schemes



The King's Champion Shorthorn Steer, Smithfield, 1908. Aged 2 years, 11 months, 2 weeks, Weight 17 cwt., 3 qr., 20 lbs.; average daily gain, 1.86 lbs.

Our English Letter

Smithfield Cattle Show—Remarkable Success of the King— Potato Disease—Red Fife Wheat in England.

London, Dec. 22, 1906.

We are now within the shadow of Christmas and all its attendant festivities. The fat stock shows are almost a thing of the past, but generally they have maintained the high standard of merit for which the live stock of the old country is famous. The Smithfield Club, which took place last week, is the final court of appeal. The show was the 108th, and amongst the exhibits were the champion animals from Norwich, Birmingham and Edinburgh shows, and these naturally

Edinburgh shows, and these naturally came in for a great deal of attention. The feature of the show was the great success of His Majesty the King, who carried off an enormous number of prizes. His Majesty's tale of victories include seven first prizes and the breed cups for Devons, Shorthorns and Highland; three second prizes and there thirds. In addition to these, he won the £30 cup for the best steer and the 100 gs. challenge cup for the best steer and the 100 gs. challenge cup for the best steer and the 100 gs. challenge cup for the best steer and the 100 gs. challenge cup for the best steer and the 100 gs. challenge cup for the best steer and the 100 gs. challenge cup for the the 100 gr. challenge cup for the prize the 100 gr. challenge cup for the prize the 100 gr. challenge cup. Thus, with the £40 secured at Birmingham, the King has achieved a great triumph, in less than a fortnight by winning at the two principal fat stock shows money and trophies to the value of more than five thousand dollars.

CATTLE CHAMBIONEUR

The first of these was the £2s silver cup for the best beast not exceeding two years old, and the winner of this was Mr. John Ross, of Meikle Tarrel, Fearn, with his red and white winner in the Shorthorn steer class. The next to be adjudicated were the claims for the £50 silver cup to the exhibitor of the best steer or ox in the classes (except carcass). Here the competition seemed to grow keener in intensity; most certainly the interest of the onlookers

did, pointing as it does to the possible winner of the full championship honors. The King's Shorthorn steer in the not exceeding three years old class was selected for the cup; and reserve for this distinction was the Aberdeen-Angus steer which headed the like class in its breed, exhibited by Mr. Peter Dunn, Hull. These cups, together with a like valued one for logether with a like valued one for the pullege of taking the worth it money.

The champion plate of 100 guineas for the best animal in the show, with a gold medal for the breeder, fell to the King's Shorthorn already mentioned; and His Majesty being also the breeder, the gold medal will be added to the successes of the Windsor Royal Farms. The King's challenge cup for the best beast in the show bred by the exhibitor also went to the same entry as the previous big prize; so the King's wonderful success at Bingley Hall has been followed by equal distinction at the great national exhibition of Smithfield.

The reserve in both these champion events was given to Lord Rosebery's not exceeding three years old Aberdeen-Angus heifer, which so easily headed its class.

SHEEP AND PIGS

A record was established in the sheep classes, a pen of three fat wethers of the Lincoln breed exhibited by S. E. Dean & Sons, Bourne, turning the scale at 10 cut. 22 lbs.

The champion plate for the best pen of long-wooled sheep was taken by Mesars. Dean with Lincolns, and

The champion plate for the best pen of long-wooled sheep was taken by Messrs. Dean with Lincolns, and the champion plate for the best pen of short-wooled sheep went to His Majesty the King with Southdowns, which pen also won the challenge cup for the best pen of three sheep or lambs in the show bred by the exlibitor.

In the pig section the champion plate for the best pen of two pigs was taken by Mr. A. Brown, and the was taken by Mr. A. Brown, and the by Mr. J. A. Fricker, Mr. Brown also won the challenge cup for the best pen of two pigs in the show bred by exhibitor.

CARCASS CLASSES

In this section the championship for cattle was secured by Mr. G. Young, of Carboll, Fearn, with a steer of 2 years, 10 months, which had been placed first when alive by the judges on Monday. The live weight was 12 owt, 1 qr, 8 lb., and the carcass weight 124 st., 4 lb. The reserve championship and the first prize for steers not exceeding 2 years old went to J. G. Young, of the same address, with his black cross-bred of 1 year and 9 months, the live weight being 10 cwt., 1 qr., 22 lb., and the carcass property of the second property of the secon

COMPLAINTS OF POTATO DISEASE



Lord Roseberry's Aberdeen-Angus Heifer. Aged 2 years, 10 months, 5 days. Weight, 13 cwt., 3 qr., 17 lbs,

had considerable influence in the spreading of the disease

We also hear complaints of the disare prospects of prices going up, and, but for the disease, potatoes bid fair got that much desired disease proof potato yet; but the experience of this season is causing some people to lose faith in Dates. If it is given up, which of the many varieties should be planted in bulk instead? For the moment we leave the question unanswered.

RED FIFE WHEAT IN ENGLAND

grown Wheat Committee of the National Association of Millers, it was found that Fife wheat gave variable

it gave such uniformly excellent reautis as to quality that the committee
deemed it advisable to ascertain, if
possible, under what conditions it was
likely to succeed as a farmers' wheat.
The heads of Fife wheat are small,
but give a yield of grain per acre
altogether larger than their appear
to expect. This experience has been
so common that it was thought desirable to ascertain its cause. With that
object in view, in a case where Fife and
Squarehead Master were grown close
together, the number of stems per
foot were counted in the stubble of
both sorts. As an average of thirty
counts in each case, it was found
that the Squarehead Master had 24;
stems per foot and the Fife 44.8, or
fifty per cent. more. It was then
thought desirable to ascertain how
this particularly thick plant was caus
ed, and it was found that one bushe
of 567831 grains and one bashel of Fife
694.993 grains or 22 per cent. more.
For the purpose of this counting going figures, seeing that only 20 to 25 per cent of the 50 per cent thicker plant could be accounted for reputation for good tilling is well deserved. Any person looking at the sorts growing in the field would not ness of plant existed, and the illu-sion is probably caused by the fact that the Fife straw has very little that the File Straw has very little slag, which also may account for the fact that the straw weighs well and yields so well per acre.

Some growers have reported that in threshing. The Home-grown Wheat Committee has realized this tendency to weakness of straw for some time, and has for years been engaged in remedying the defect by selection and hybridising. The brittleselection and hybridising. The brittle-ness is much intensified if the wheat

be allowed to get fully or dead ripe. Some at least of the largest growers have been able by earlier cuttings to obtain straw which has been sold at maximum prices. The wheat is one plots, and suffered to a moderate ex-tent only. Squarehead Master, in the next field, which was not nearly so

in the highest terms of the flour and the bread produced from it. Although the Fife wheat introduced by the consecutive years in England, there is not the slightest evidence of di-

A. W. S.

Agriculture in Ireland

compare favorably with any other country for brightness and intellicountry for brightness and intelli-gence. The accompanying illustration is a good specimen of this class. In

THE CONGESTED DISTRICTS,

which includes the rocky, hilly por-tions, where the land is very stony

sive and will last for many years. Each family has its own plot, which the square is taken out in the shape of two bricks in length. These left to dry in small heaps, then are lett to dry in small heaps, then piled in one larger and finally, when thoroughly dried, drawn to the home and piled as cord wood. It is a com-mon sight to see a whole family en-gaged in procuring a supply of this fuel and preparing it for the haul home. Taken as a whole, Ireland is

AN INTERESTING COUNTRY.

well worth visiting. It is rich in nawere worth visiting. It is rich in actual wealth, contains beautiful seen-ery, especially on the west and north coasts, with a fair service of railways. Its one great drawback is the lack of trees, but the Department of Agriculture is stirring on this sub-ject also. Already much has been done in preparing the way, and I shall expect much planting to be done in the near future. These forests will help to beautify the landscape as well as provide an added commercial asset. Game will find in them, also, a reservation in which they may find security

vation in which they may find security and a safe breeding ground.

I will conclude the series by saying that my hope is that Ireland may be allowed to forget her past history, which no power can at this date undo, and live in the present, doing her best for her own children and cultibut while demanding her rights, will front as a producing nation.

A Valuable Report

The second annual report of the Canadian Seed Growers' Association has been received. It is a valuable report of 96 pages, and is of special constitution and by-laws of the asso-cation, the methods of keeping re-cords of registered seed, the names and addresses of seed growers who are producers of registered seed, and instructions as to the methods of growing and selecting seed grain and

Best Yet

My father takes The Farming World and thinks it the best paper for giving information about stock, poultry and markets he has ever had.

B. Schlotzhauer.

Perth County, Ontario.

An American traveller in England heard the following in a third-class railway carriage near London: Mother (opening a parcel of sand-wiches): "Johnnie, what kind of sandwich will you 'ave?" Johnnie: "Tll 'ave 'am, mother."

"Don't say 'am, dear.

Mother: "Don't say 'am, dear.
Say, am!"

Man in the corner (chuckling to himself): "Both of 'em thinks they're saying 'am." .48

A well-known judge fell downstairs, punctuating his journey with a loud exclamation point at every step. A bystander hurriedly raised him up and solicitously inquired: "Is your honor

"No!" snapped the judge, "but my head is."



How to Train the Roadster*

As in the case of the worker on the farm, the first lessons for the prospective road horse are that of first getting the animal familiar with the harness, to move around quietly in harness single or double, and to re-spond to the bit and the voice to some degree at least. In fact, there is no better place to teach the horse this than at some light team work

The education of the most promising ture beyond the most menial labor, and they must learn the ground work first and the finer touches not until long afterward. If the horse by na-ture possesses fine conformation, combined with natural elegance, action and style, then the labor of development is so much the less, and the possibilities so much the greater. If on the other hand, as is usually the speedway, he possesses good natural conformation to begin with, and a temper and nerve which at least brings him within the limit of possibilities both of which his breeding ought to assure, and along with these qualities a considerable number of shortcomings, then it will be the next

DUTY OF THE TRAINER

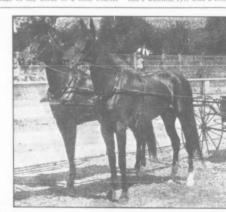
to watch for such of these as he may ond step in the training of all horses whose future sphere will be the road, the park, the boulevard, the speedway, and the racetrack, is to familiar ize them with all that is required of is destined to be driven on the high-way will well repay the pains taken. Even if he is unsound, or of very faulty conformation, and of such a character that poorly trained he would not be a hopeful bid for a dollar, yet well trained and apparently full of natural handiness, some one will be sure to think there is all in his case of a mare. The difference be-tween a well trained road horse and one that is merely "familiarized" with the road is pretty well illustrated by the remark of the Irishman who said that if the fences were all in good repair he could get along somehow— the one is a case of driving and the other one of "chasing," which just about classifies the comparison. Is about classifies the comparison. LIGHT SINGLE DRIVING

almost every form and make of bit that has ever been devised has been kinds of horses and by all kinds of men. After all, if we ignore the ex-ceptional cases, of the horse with unruly temper, badly trained, the hard-puller and the horse with the sensi-tive mouth, always or nearly always the result of bad handling at some headstall also of as fine a fit as pos-sible, has as yet never been improved upon. In the case of the light road-ster, breedy, light and rangy of forester, preedy, light and rangy of tore-hand, with well set head and neck, the bar bit should usually be prefer-red, as it will bear a trifle more weight of hand than the snaffle, and this style of horse usually presents a case where lightness and delicacy of touch are doubly important. In the case of the horse of a little coarser

bit be a snaffle or straight bar. At-

each ring over the neck confining it close, the object being it possible to prevent the lines from getting around the shaft when the colt tosses his head, as he is sure to do. Wear a ing the horse's head to be carried a trille low if he likes, but short enough to prevent him boring his head in an awkward manner. Keep a light touch on the rein, and at all times make the horse keep right up to it— It is not necessary to make manner. It is not necessary to make him walk his fastest or to trot his best clip. Three and a half miles an hour at the walk and seven and a half miles an hour at the trot are rates which he should be made to keep up as long as he is going stead-Always watch that he turns out handsomely when meeting another carriage. Keep him in the middle of the road until at a proper distance and then turn smartly to the right, but as often as not drive him a little way up at the trot, as ne will then not learn to drop suddenly into a walk at the base of every little de-

To drive a single roadster well re quires a good temper, a good hand and a watchful eye, with a conscious-



A well broken pair of roadsters

articles on training the horse by J. W. Sangster (Farming World Man on the Wing).

ness of what you are doing. Never forget appearances yourself, and that is at the same time just what you do not wish the horse to do. An ungainly attitude is never a really comfortable one. If you are feeling lazy, and if ou the other hand you forget yourself and in hauling the horse's head around you get your elbows in the air, your back humped up, and the horse's head pulled around to one side, then is the time to just stop and think, "What did the horse and myself look like just then?" "Did that moment of forgetfulness enhance the appreciation of the whole outfit generally in anyone's estimation?" On the contrary, if any really good horse-man, or many indifferent ones for that matter, happened to be looking on, their first probable remark was, "Look at the idiot," and you can gamble that your guess was a pretty shrewd one.

STYLE IS A MOST DESIRABLE FEATURE

in the driving horse, but all the style in the world will not make the outin, with a driver who is continually getting into awkward positions and his accourtements disarranged, compare minute with the well-ordered, friin, de, well-groomed and well-mannered outfit in which flashy style is entirely lacking. The former is merely an exemplification of the old-time probable, "Clad an ape in tissue and proveds," and proveds a control of the property of the clade of the property of the clade of the property of the clade of the property of the

and you only add scorn to the beast."

In driving with a light rein the seat of the vehicle best suited for the handling and training of the horse, the season of the vehicle best suited for the handling and training of the horse, we hand to see that the season of the

THE TRUE ART OF DRIVING

is to appear composed, cool, comfortable and at the same time elegant, first last and all the time. The moment that you forget yourself, and raise hands, whip or voice high, you have lost all of these, so has the horse, and both of you look as if a little bit of balance was lacking. All this, and all the other possibilities in good horsemanship, is attained only through first developing in the horse a "fine mouth," or through intensifying in him his own natural

All this, and all the other possibilities in good horsemanship, is attained only through first developing in the horse a "fine mouth," or through intensifying in him his own natural tendency to instant obedience of the very light touch of the rein, and maintaining it by never using a heavy hand except when absolutely necessary, and not a moment longer than necessary.

Clover for Horses

Of late years clover has been a more popular hay crop and is grown to a much larger extent than formerly. Many farmers are, however, opposed to feeding clover to horses, as they claim it will cause heaves. On this point the "Michigan Farmer" gives some sound advice as follows:

This clover hay question is quite an old one and many farmers would not feed clover to their horses for love nor money. The old saying. "Where there is so much smoke, there is sure to be some extent to this case. We believe that clover hay under some conditions is apt to produce heaves. The reasons for that as we see it, are two fold. First: Clover hay being more difficult to cure than timothy is often, during bad seasons, put up in a rather damp condition and the result is that it becomes mouldy or very dusty. Hay that is very dusty is injurious to horses, especially so, when fed in this condition without previous sprinkling. Second: Good clover hay is relished by horses more than timothy, and for that reason they will consume much more of the former if the case on farms that the hired man feeds his own team or all of the horses, many of these men will throw all the hay before a horse that he is willing to eat. The result is that a hearty feeder will consume more clover hay than is good for him. The walls of the stomach are distended to such an extent that the organs of respiration are affected and heaves are sure to follow if such feeteding be continued for any great length of time. Had timothy hay been fed, the horse would not have been nearly so apt to eat too much.

We are not however, arguing that timothy should be fed to work horses in preference to clover on this account, on the contrary, we would precause it contains much more nourishment, a much higher per cent, of protein or muscle forming substances than does timothy. Besides, a crop of clover produces more forage per acre than timothy and, at the same time, adds nitrogen to the soil which timothy cannot do. There is this about it, however, greater care must be exercised in feeding clover to horses than in feeding timothy. Further, clover has a slightly laxative effect upon the horse, and for that reason, is not quite as well adapted for

Another point in favor of clover for horses is that in case both clover and timothy are produced on the farm and part is to be sold, timothy hay always brings the better price on the market and therefore if either hay is to be disposed of, timothy should be the one. Not only will timothy bring the best price on the market but it also removes less plant food from the farm than an equal weight of clover does. To sum up, then, we conclude that clover is a safe food for horses and should be more generally used as roughness for work horses on the farm than is the case at present, but moderation and care must be exercised in feeding it. We have fed clover hay without any bad effects, and are acquainted with many farmers who have fed it for twenty-five years in succession and never had a case of

Winter Management of Breeding Cattle

The feeding and general management of breeding cows and young heifers vary so very much, according to their kind, constitutional robustness or delicacy, the main object of the owner, his views, opinions, and prejudices, climate, situation, buildings, and the kind of food raised from the farm most abundant during the winter season, that many pages might be filled with theories and

Some broeders entertain the notion that the less shelter and more exposure to the elements average heifers of all hardy, native varieties receive, the better. The wild creatures of mountains, forests, and the prairie have undoubtedly abundance of hair, but of a more wry, harshe kind than owners of Shorthorns or any other pedigreed variety of the bovine race would like to see on their animals, sociated with hides as thick as that of the buffalo. Moreover, other of their features would be equally objectionable, such as sinew and muscular development, strings and strong, the coarsest of flesh and big bones. Nature could not all at once, or in two or three successive winters, make domestic animals like her native wild ones by exposure to the elements they have to brave, and we may be well the cattering the control of the co

If this ought universally to be abandoned as unnatural, so ought the opposite course to be rejected, of pampering young cattle and keeping them confined all day, as well as in the right season in covered yards and houses. There is a rational middle way that steers clear of the soils of both extremes, that of giving the animous them to both extremes, that of giving the animal of the property of t

Another question of paramount importance is: How ought young pedigree cattle be fed? The opinion is very general that rather low dieting is rather more favorable to the generative function than feeding them habitually with rations calculated to

Any strangers visiting the breeders of Hereford cattle, in the home of the strangers of Hereford cattle, in the home of the strangers of Hereford cattle, in the home of the strangers of the str

get too fat when they calve. The feeding of Devon breeding heifers is very similar to that of the Herefords. In both cases, if it is possible, their owners prefer them to roam the fields by day. They browse straw fodder at night, but it depends on circumstances whether they have many roots or much cake or not. In all breeds, the kind of feeding the breeding animals get usually dependent to the breed. The ordinary practical farmer would be unlikely to give his young breeding heifers much artificial food, whereas maybe in a large breeding establishment, with a competent manager at the head, a great deal more artificial food may be given.

The winter dietary varies very much according as straw and roots are scarce or abundant. When the farm is almost entirely grass, hay becomes the staple food for cows and heifers over a considerable portion of winter and spring. But this is a commodity

which, however useful and good to rely on, differs greatly in quality, as well as in suitability to health, in accordance with the nature of the land that grows it and the success in tak-ing it secure from damage in the making. A great deal of hay has less nature in it than good straw, and is far less harmful to cattle feeding on tar less harmful to cattle feeding on it. The ordinary resources, when the hay has suffered damage, is to chaff and steam it, and when innutritious to give a little oil cake in conjunction. A far better system would be always to convert a portion of the grass into silage—indeed, a large portion of it when the meadows yield low class herbage, and in all cases when the season is bad for haymaking.

The feeding of young bulls is naturally and necessarily high, and little need be urged about this beyond the point well known to all skilful breed-ers, that the kind of auxiliary feed-ing stuffs habitually supplied to them ing stuffs habitually supplied to them should be those which favor muscular development, of which oil cakes and bean meal are the best. These animals, no less than all others, require, however, variety of diet, and the ration that will suit one bull may not be best for another. The eye of the owner consequently makes the bull, as often as it fattens the ox.

W. R. GLERKT.

The Breeding and Feeding of Sheep*

In the purchase of breeding stock, too much attention cannot be given to the quality of the animals selected to form the flock in the case of either the males or the females. It is very certainly better to have a few well-shaped, well-wooled animals in the flock than to have a large number of commonplace, ill-shaped, coarse and badly wooled ones. The male in sheep breeding operations, as in all other breeding operations, is of course of paramount importance and the expenditure of \$5 or even an extra \$20 not stand in the way of getting the animal the most suitable for the purpose in view. This is advisable though only grade ewes are to be used, since the influence of the ram extends over the whole lamb crop, and the extra cost distributed over half a hundred lambs for three or four years amounts to a bagatelle of an increase in each case, but really makes a very impor-tant change in their appearance and

SUCCESS IN SHEEP FARMING

depends upon the proper attention (neither more nor less than the pro-per amount) being given the flock at the right time. Starting with the ewes in the fall, it is undoubtedly of the highest importance to have them in thrifty condition and improving rather than failing at the time of coupling. Ewes bred under such conditions are much more likely to give numerous and vigorous lambs than numerous and vigorous lambs than where bred when in poor condition or on short rations. The ram, it is unnecessary to say, should be put in good shape as the breeding season approaches. He should be separated from the ewes for a week or two before the beginning of the 155 or 160 day period which must intervene 100 day period which must intervene between service and the dropping of the first lambs, and during this in-terval of two or three weeks he should receive a plentiful roughness ration as well as a small amount of meal. After service time, the ewes may be fed largely on roughness.

ng he is

*Extracts from an address by J. H. Grisdale, Agriculturist, C. E. Farm, Ottawa, at the Maritime Winter Fair,

Turnips might advantageously constitute a good portion of the food, say five or six pounds a day per head, and along with the turnips, some high-ly nitrogenous dry feed such as pea straw, vetch hay, clover, alfalfa or

pea and oat hay.

A small amount of straw might be fed when it would be necessary to add some meal. When the ewes are three some meal. When the ewes are three months gone in young, even though good roughness may be being fed, it is usually advisable to add a bit of grain, say half a pound a day of a mixture of equal parts bran and oats. At the same time, the turnip or root ration should be gradually diminished until about three weeks an another heafers lumbing time. or a month before lambing time be-gins only a small amount of roots should be fed each day, say a pound or two per sheep.

An exceedingly important thing in

WINTER MANAGEMENT OF SHEEP

is that the ewes should be compelled to take considerable exercise. Ewes that fail to get as much exercise as they should are apt to produce unhealthy lambs, weak at birth and unhealthy lambs, weak at birth and unheilthy lambs, the search of the sea servable at lambing time when not infrequently the lambs can scarce stand up or are affected with goitre or are over-fat.

Unnecessary to say that great care should be taken of the mother and



The head of the Grand Champion Steer at Guelph, 1906.

her young for a couple or three weeks after lambing. They should be carefully protected from the inclemency of the weather and fed a fairly plentiful ration of nutritious and easily digested food. Probably the best ration that could be advised would be, say one week after lambing, from one-half to one pound of the mixture of bran and whole oats, about three pounds of clover hay and a couple of pounds or more of turnips. Lambing time reveals the shepherd

Lambing time reveals the shepherd. If poor, then most certainly will the lamb crop fall short. Not only will the lack of care in the past months show itself in the inferiority of the erop, as to both quality and quantity, but also in the proportion saved. The bad shepherd makes bad ewes, that is, they respond not to attention paid them and in addition the shepherd is not apt to give as much attention as he should. Consequently

HEAVY LOSSES OCCUR,

poor condition follows with the result of inferior lambs when marketing time draws on.

draws on.

At no great age the lambs may be persuaded to eat. A creep constructed in one corner of the pen or in some secluded part of the pasture will excite their curiosity and a trough containing a little bit of oats and grain will soon draw their attention, and be robbed of its contents. Lambs

receiving a bit of meal, a bit of grass, their mother's milk, the whole flavored and increased in value by bit of kindness on the part of the shepherd, make wonderful progress in condition and, therefore, big money for the owner. As the dry season draws on, the utmost care will be found necessary to insure continuous thrift in the flock, on the part of the lambs more particularly, and, un-necessary to say, they should be the shepherd's chief care as long as they are lambs. When weaning time are lambs. When weaning time comes on, the meal may be increased or new pasture should at least be provided or cut feet thrown on the old and somewhat bare fields. Suitable feeds for this period are rape, vetches, clover, alfalfa, peas and oats. A discussion of the cultivation of these would be of value, but cannot be taken un at the present time.

be taken up at the present time.

A practice most common, but not the less reprehensible, is that of leaving the lambs on the ewes until they wean themselves. The effect is gen-erally to put the ewe in very poor flesh, to make her conditioning for the next service exceedingly expen-sive and to materially injure prospects sive and to materially injure prospects for the succeeding lamb crop. Better far to separate the lambs from the mothers in July or August, as certainly better lambs will result, better mothers surely will be found in the flock and, as a rule, much more surely will be to the control of the c profitable operations be recorded.

Sheep Act Should be Amended Editor THE FARMING WORLD: At the meeting of Farmers' Institute delegates, held in Toronto, on Sept. 5th and 6th last, there was a resolution introduced by myself and Mr. F. Birdsall, of Birdsall, Ont., and carprogram, of Birdsail, Ont., and car-ried unanimously, recommending legis-lation towards eliminating clause 2 of chapter 271, R.S.O., 1897, and mak-ing a tax on dogs for the protection of sheep compulsory. I have also of sheep compulsory. I have also asked the secretary of the Association of Fairs and Exhibitions to have this subject placed on the program for discussion at their next annual meet-

I was pleased to read in THE FARM-Ing World the discussion at the Win-ter Fair on this subject by some of the leading sheep raisers of Ontario and I trust we will hear more from

them. them. I think the Act should be made compulsory and I believe that one great benefit in doing so would be the doing away with a lot of worthless dogs, and there would be fewer sheep killed. I think that every township council should appoint a competent person to adjudicate on losses and that the taxes should be a general fund to pay for sheep killed by dogs in the numbrigality. Prusting to hear in the numbrigality. the opinions of others on this subject, I remain.

Yours truly, CHAS, O'REILLY. Secretary of E. Peterborough F. I.

Winter Care of Sheep

A good many buyers send letters of disappointment in starting with sheep, and in nearly every case they inform us that it was not lack of care for the sheep that caused the disappointment. Some lose lambs, and some both ewes and lambs. I think likely the care was good, but not of the right kind. Good feed and plenty but no more than the ewes can eat but no more than the ewes can eat is one thing needful, but to my mind the most essential and absolutely needed thing is plenty of exercise. But whatever else you do, do not set the dog on ewes heavy with lamb nor drive them yourself without you

The Furrow in Cattleland

From the trend of settlement in Alberta at present it would appear to be within the range of probability that the whole of the land, except such as is unproductive from intrinsic probut of climate. The south, or ranch country, has been popularly regarded as too dry for farming purposes.

That it is not too dry under right

conditions is being demonstrated by the trends of settlement. During the post of settlement. During the post half down years settlers have settler share the post half down years settlers have settle

the vast irrigation enterprise of the Canadian Pacific Railway. The outstanding colonization wovement, which is more noticeable because of former neglect, is along the line of the Macleod, Calgary and Edmonton Railway, south of Calgary, around such centres as Oktotoks, High River, Claresholme, Nanton and Leavings, tance east and west from the line, but more particularly east, and is now active north and north-west of Lethbridge. Villages are springing up away from the railway, and more will come when the railway between Lethbridge and Calgary becomes a fact. A charter for this line has been applied for. It will be a natural extension of J. J. Hill's great northern system into Canadian territory, system into Canadian territory. tance east and west from the line, but is becoming quite active both on irri-

much the making of rain, but the keeping of it. There is practically no difference between the north and the south as to absolute rainfall, taking Edmonton and Calgary records.





The best farm fence is one that stays after it is put up and doesn't require constant repairs. Strength and wear the string studies in Ferling studies in Ferling studies in Ferling studies in Ferling studies of the string studies of the string studies of the strength of

PEERLESS LOCK

e scoret of strength in Peerless ence. It keeps the fence firm and cid, the wires in place and prevents y openimes of breaks being made in mailties in ground surface, working ually well on hillsides or level land, the spring in the lateral wires gives it asticity and there you have it—a rick! tence, no barbs to burt, no asticity and there you have it—a refect fence, no barbs to hurt, no ars to break—a strong, simple, safe no. It's economical too-costs title more than plain wire and no ex-ense for repairs. Write for our free nee book—it will interest you.

The Banwell Hoxle Wire Fence Co., Dept. C Hamilton, Ont.

Cancer Cured No Knife, No Pain

DR. RUPERT WELLS, 2146 Radol Bldg.

(Along the Crow's Nest railway at points such as Medicine Hat, Lethbridge and Macleod it is ratifier less than at Calgary.) The rate of evaporation in the south is, however, much greater than in the north. In the north there is considerable timber or at least scrub, which holds the snows of moisture, as it has a great deal of leaf and grass mould. This black soil sometimes extends to a depth of a couple of feet. The sub-soil is besides a somewhat impervious clay,

all surface moisture is exposed to the sun, but more particularly to the warm, dry chinook winds which lick up the moisture at a phenomenal rate. The surface of the ground is never dry for any length of time, and this applies to rain and snowfall alike. Cultivation itself is working good effects in the matter of moisture consecution. The actual of the consecution of is making it more quickly absorbent, and the effect of surface cultivation in making a mulch to prevent evaporation by checking capillary attraction, is being better understood. Though the same amount of humus is not pre-sent in the soil of the southern coun-

This character in the soil and im-provement in methods of cultivation ing on and why it should go on. Wheat fields in both the Claresholme and Lethbridge districts have yielded in individual cases fifty-The latter was on irrigated land, but good yields without irrigation are

The newly discovered capacities of these lands in conjunction with the mild winter climate of the south are likely to result in a strengthening of the movement of settlement towards

this part of the province.

J. McCAIG.

She Knew the Text

A little Topeka girl came home from church the other day and was asked what the minister's text was. "I know it all right," she asserted. "Well, repeat it," her questioner de-

"Don't be afraid and I will get you a bedquilt," was the astounding an-

Investigation proved that the cen-tral thought of the sermon had been, "Fear not, and I will send you a com-

A minister of the gospel one Sab-bath announced to his flock that he would have to leave them as he was called to another field. "How much called to another field. "How much more salary do you expect to get there than here?" asked one of the deacons. "Three hundred dollars," remarked the minister with some hesitation. "I don't blame you for goin," remarked the deacon, who had been asked to the deacon.

worldly man in his time, "but you should be more exact in your lan-guage, "That isn't a 'call' it's a

Be sure and read the list of piano bargains which is given on the out-side back page of this issue.



Seed Exhibit, Provincial Winter Fair, Guelpa, 1906.

Can Ontario Grow Her Own Seed Corn?*

ing will be of interest to few; it she can, it should be of interest to all. From conversation to all. From conversation, observa-tion and experimentation I believe she can. I have reference now chiefly

This year, for our corn work in Ste Anne de Bellevue, we obtained seed corn from thirteen growers in these counties and, notwithstanding the fact that we had a cold, backward spring, the corn averaged 90 per cent. germination in the field. The man who has made careful field germination tests will be the one who will wond sourcest.

College this past season and yielded at the rate of 106 bushels of shelled corn per acre of thoroughly dried seed corn. The only fertilizer used seed corn. The only fertilizer used was a light application of barnyard manure in the spring. Seed of the flint corn to my right was obtained in the Eastern Townships, Quebec, and planted at Ste. Anne's. Although it was not planted until the 6th of June it was

sufficiently severe to injure the foli-age. This plot was one-quarter of an acre in size, received no artificial corn per acre. Undoubtedly, we have yet much to learn regarding varie-ties, cultivation and handling of this important crop, but by co-operating success are not grave.

has been selected in a crude way for centuries. The fact that in harvest-ing the crop it was necessary to handle each ear separately made the handle each ear separately made the selection of the largest and most symmetrical ears a comparatively easy matter. It is true that by this method performance and real efficien-cy were often sacrificed to good ap-pearance, as is too often the case at the present time. An ear possessing outward character and strength and approaching perfection so far as conformation goes need not necessarily

*Paper read by L. S. Klinck, Mac-donald College, Ste. Anne de Bellevue, Que., in the lecture series at the Provincial Winter Fair, Guelph, 1906.

be a productive or a desirable ear to plant. If in addition to a good ex-ternal appearance the individual kernels are of the desired conformation we can more nearly determine the we can more nearly determine the true efficiency of the ear so far as feeding value is concerned, but it is only by a comparative field test of different ears that we are able to

efficiency of any ear.

Realizing the wide range of varieties and types of corn grown in Ontario I shall not specialize too closely, but hope to direct your attention sidered in selecting a good seed ear.

All ears intended for seed purposes should conform to the desired standard in shape of ear and kernel, in color of grain and cob, in purity, size, uniformity, filling of butts and tips, indentation of crown (in the case of dents), depth of kernel, space between rows, straightness of rows and proportion of corn to cob. Conformity to a desirable type should be insisted on, as it has been repeatedly demonstrated that pure-bred varieties give on, as it has been repeatedly demon-strated that pure-bred varieties give not only higher yields, but corn of better quality than that produced by nondescript breeding.

While this is true, broadly speak-ing, it must ever be borne in mind that it is unwise to pay such close at-tention to detailed evidence of good breeding that real efficiency is ne-

cative of strong constitution and high

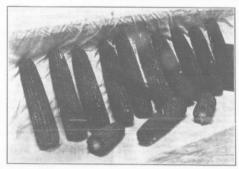
SHAPE OF KERNEL

A good kernel, especially in the dent corns, should be broadly wedge-shaped, strong and plump at the tip and should carry its sides well up and should carry its sides well inp to the crown, giving a strong, full shoulder. The germ or chit should not only have a large surface but should be carried well down to the back of the grain. The germ is high in oil; the hard, horny part of the kernel is rich in protein.

In selecting an ear of corn for seed always remove two or three kernels and study them in connection with the ear. If the kernels are undesirable reject the entire ear, even if to outward appearances the ear is good. Many a poor ear is used for seed or show purposes which would never have been considered had the owner removed a few of the kernels and made a careful study of them before making his final selection.

BUTT

The butt should be symmetrical, full and strong and made up of straight rows composed of kernels



Prize Corn, Seed Exhibit, Provincial Winter Fair, 1906.

an extent that the ears break off pre-maturely. Open or swelled butts are

The tip should be in proportion with the body of the ear and round out symmetrically and naturally. The retain as nearly as possible the size, shape and indentation of those in the centre of the ear. Too much attention should not be paid to the complete covering of the tip, as the kernels here are not so valenble for sent or for feed as those in the centre of the ear. In addition to this, when undue attention is directed to securing ears well filled out at the tip, there is danger of doing so at the most valuable part.

PURITY OF COLOR IN GRAIN AND COB

Strict adherence to a uniform color is essential in maintaining pur-ity or freedom from mixture in any ear, although apparently pure, are in reality of a different origin. It is not good practice to plant for seed any good practice to piant for seed any ear having many mixed kernels, even if all the kernels not true to color have been removed, as the influence of the previous cross pollination may at any time manifest itself in subse-quent generations. White corn should have white cobs; yellow corn should have red cobs.

UNIFORMITY OF KERNELS

Under this heading is considered not only the uniformity of the kernels on the ear, but also the conformity of the ear and its kernels with the east of the sample. As the kernels on the butt and tip of an ear cannot conform placely to these in the captor. conform closely to those in the centre they are shelled off when a uniform sample is desired for seed. Blocky or irregular kernels in the central portion of an ear are considered much more objectionable than if they were difficult to remove them.

VITALITY

As used in this address the word vitality is not restricted to a kernel's ability or lack of ability to germinate but is used in the wider sense to in-dicate its strength and probable reproducing power when it does grow. A kernel full and plump in the tip and having a bright, vigorous germ is more desirable. Kernels weak and is more desirable. Refries weak and pointed at the tip do not have a sufficient store of reserve food to give the tiny plant a strong start in life. All such kernels should be discarded.

In order to determine the relative value of the different types of immature kernels so frequently found in selecting seed corn, germination tests were conducted by the writer in the field and in the green-house. classes were experimented with and the conclusions drawn from the re-sults form the basis for the statements regarding each class. It was found that chaff adhering to a kernel, as it often does in immature ears, was not sufficiently detrimental to warrant discarding such kernels providing this was the only evidence of imma turity, as the growth of these kernels both in the field and in the green house, was satisfactory.

BLACK TIPS

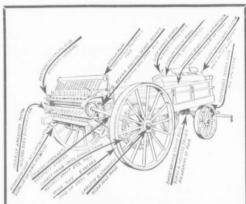
Kernels with the tip-cap removed, exposing the black covering of the embryo, grew well when planted in the green-house and under field conditions gave a good stand. The tip ditions gave a good stand. The tip cap is intended as a protection for the young plant, and when removed the water readily enters. If planted in a cold, wet time, such kernels fre-quently rot, but when planted under favorable soil and climatic conditions give but little indication of impaired

black skin-like covering immediately under the tip-cap is natural to every kernel. Objection can be taken to its appearance only when it is expos-ed through removal of the tip-cap in the process of shelling.

WRINKLED, BLISTERED OR SHRUNKEN GERMS

Kernels showing these evidences of in which objection should be taken to them. Corn stored in a very warm place will shrivel and become uneven on the surface. Unevenness on the surface of germs due to this cause

(Continued on Page 70.)



Direct Chain Drive of "Success" Makes Draft 25% Less

some, easily-broken clutches, levers, gears, etc., are used to drive Beater of "Success" Manure Spreader.

Old style methods have been side-tracked entirely-not good enough for "Success."

Power is supplied by direct heavy chain drive-a simpler, stronger, easier-working

The driving mechanism is held securely in place by a HEAVY BRACED STUD, which is entirely absent from common manure spreaders.

Not a link of the STEEL PINNED CHAIN has ever been known to break-and we've sold over 15,000 machine

This direct drive gives the "Success" lighter draft, too-fully 25 per cent. lighter than any other machine

A lever close by the seat throws the beater into gear. Impossible for it to get out of gear until the load is completely distributed, or you release the lever. Securely locked back when in gear, and just as securely locked forward when out of gear.

And our BEATER FREEING DEVICE is a wonder. Simultaneously with the throwing of the spreader into gear the beater is automatically moved back from contact with the manure. Has lots of time to get up speed before manure strikes it. This prevents all possibility of a strain in starting.

member, too, the "Success" has the LARGEST AND STRONGEST REAR AXLE.

This is of immense importance. Rear axle has to convey power to pulverize and distribute the load, besides bearing a great share of its weight.

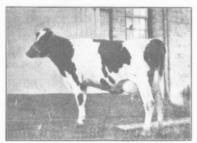
Steer clear of a weak axle. It will play havoe with your machine. Parts will become disarranged and broken. It will be a constant source of anxiety and expense

If you want the simplest, strongest and easiest-working manure spreader on the market you will buy the "Success."

Write for our Free Illustrated Catalogue. It tells all about the "Success" in detail.

THE PARIS PLOW COMPANY, LIMITED

Paris, Ont., and Winnipeg, Man.



The Champion Cow, Boutsje, owned by O.A.C., and whose wonderful record is given below.

Remarkable Figures in Milk Production

Every dairyman looks forward with interest at the end of the year to the record of the dairy herd at the Ontario Agricultural College. The record for 1906 is in advance of that of the previous year, and shows that the cows at the college have not yet reached a point at which it may be said that the maximum in milk production has been attained. The average for 1905 was 6,062 lbs. of milk and 261 lbs. of butter per cow, and the average cost per cow for the year was \$28.70. Had the herd during 1906 not been used in testing the milking machine, a larger return would have been received. Prof. Dean has kindly furnished The Pamans Wolld by the detailed statement of the herd's record for 1906, which reads as 100-

"Replying to yours of Dec. 31st, regarding our dairy herd, I would say that our best cow in 1906 gave 11,499 pounds of milk and 465 counted for the control of the control of the control of the control of the butter was \$6.512 pounds of milk and 277 pounds of butter. The value of the butter was \$6.252 per cow, and the milk \$104.74. The average per-centage of fat was 365 and the average cost of feed per cow \$30.63. Last year's average profit on butter over cost of feed was \$31.74, and on milk, over cost of feed, \$73.84.

The first nine cows in the herd were Holsteins and Holstein grades. We estimate that on three of our older cows we lost not less than 10,000 pounds of milk during the past year as a result of using the milking machine, and our average is lower than it would otherwise have been.

Regarding the champion cow. Boutsje, I would say that her record Boutsje, I would say that her record 2,222 pounds of milk and a say of the say

As will be seen the herd, notwithstanding the drawbacks incident to testing the milking machine, gave an average of 451 lbs. of milk per cow more than in 1905. If the 10,000 lbs. of milk which Prof. Dean estimates were lost, because of machine milking, were added to the grand total, it would mean an average increase of about 500 lbs. per cow for 1906 over that of 1905.

The record made by the Holstein cow Boutsje, champion of the Winter Fair dairy test in 1905, and purchased by the Ontario Agricultural College, is a remarkable one. If we take it is a shove, this cow would give a cash return for November last of \$40.35, or within \$4\$ of what it cost to keep her during the year. At the same valuation, she would give a cash return of \$10.28 for the seven days' milk and \$1.23 for the milk of one day. If figured on Prof. Dean's valuation of the butter per cow for the herd during 1906, this cow would give a cash return of \$10.97 for butter alone during November last. On milk the best cow in the herd would give a cash return for 1906 of \$88.35 and \$18.39.87 sepectively, or \$80.08 more from butter and \$79.24 more from milk the average of the herd.

These figures should give the daryman something to think about. They show what is possible in milk production by careful selection and feeding of a dairy herd. Let every farmer take a lesson from it; find out what his cows are doing, and act accordingly.

Cow Testing Associations

A good start was made in 1906 with incomparison of cow testing associations, but we hope to see a great production of the movement during the comparison of the movement during the comparison of the movement during the profuse of efforcing the profits of milk production. Judging by results obtained elsewhere and also by the experiences of progressive farmers in this country, it would seem to be possible to increase the average production of Canadian herds by at least 2,000 pounds of milk per cow per year, by applying the same rational methods.

The plans for the improvement of a dairy herd need not be elaborate or expensive, and should take cognizance of the fact that there are good cows and poor cows, judged by their milk production, in all breeds, and that is does not follow because a cowmon the comparison of the production of the production. There is only one true standard and the test must be production. This is not an argument against the pure bred animal as such, but rather an attempt to place performance abead of pedigree Ancestandard of the production of the pr

Owners or managers of cheese factories and creameries naturally take an interest in this question and there is no reason why testing of individual cows should not be done by the factory management. Most factories have the necessary appliances (except the sample bottles), and the manager is, or should be, more competent to do the work properly than the average farmer is. Full particulars regarding the formation of testing associations may be had by applying to the Dairy Commissioner, Ottawa

Eastern Dairymen in Annual Session

The thirtieth annual convention of the Eastern Ontario Dairymen's Association, held at Ottawa. Jan. 9-11, was fairly well attended. While there were a great many makers present, the number of farmers or milk producers present was very small. A program of interest find value to dairymen had been prepared, and it was a pity that more producers were not in attendance at the sessions of

The chief feature of the opening session was the annual address of the President, Mr. D. Derbyshire, M.P. Speaking with reference to the work

"We have to acknowledge that we did not produce quite as much milk as in 1905 owing to the shortage of pasture, and we feel confident that with all the educational advantages that are in reach of our dairymen, such as this association, the dairy schools, agricultural colleges and cow testing associations, a greater quantity should have been produced. We believe that the cow testing associations, which are being encouraged and established under the supervision of the Dairy Commissioner, should re-

ceive more attention from the dairymen, and that nothing would have aided more in keeping up the quantity and standard of quality than the accurate knowledge of just what our individual animals are doing, which is easily obtained by the formation of these cow testing associations.

A HUNDRED MILLIONS

"We find that we have made about \$100,000 worth more cheese this year than last yet we find the wear behind in the exports of but we are behind in the exports of but we find that packages, but with the high prices obtained, we find that the estimated value of cheese, butter and bacon exported will amount to about \$46,500,000 from the make of 1906, and when you add to this \$34,500,000 the value of these articles of food (including milk) consumed at home, we have a grand total of \$10,000,000, which is \$6,000,000 more than for the year 1905, \$0,000,000 more than for the year 1905, the cated in the work, we bette educated in the work, we consumption increase each succeeding year."

Before closing his address Mr. Derbyshire announced his retirement

Dealing with the question of dairy records. M. C. F. Whitley, of the state of the control of the

were waking up to the fact that there were vast possibilities in the breeding of dairy cattle and the product of the product o

the afternoon session of the first day of crisidale and Dr. J. G. Rutherford, Veterinary Director-Gueral, were the chief speakers. The former took up the question of farm economics. Care for his cattle all the year round should be the aim of the great need for a change in methods, further the condition of a definite plan at the division of the division of the year and the condition of the division of the year divided into four fields with a suitable rotation list of pasture, corn and roots, grain and hay, arranged so that there would be acrop of each kind for each year. A portion of six acres should be set apart for growing such crops as clover, corn and mixed crop, such aspeas and oats and vetches for summer feeding. In each field there would be one of these, and this would give stady feed for the cattle when the pastures fail only provides feed the Mr. Grisdale cited a case of a farm which five years ago supported only it head of cattle, and last year supported 29 and enabled the owner to stall hay besides.

Stalls: Hyother.

was Dr. Rutherford's topic. He argued that dairymen kept their stables too warm. It was not unusual to find an unventilated stable with 70 degrees of heat, while it was 30 degrees

Figures That Tell

the tale of success, strength and safety. A new Canadian record accomplished in 41/2 years:

Capital, Reserve Fund and Undivided Profits, 5.250,000

Your account—large or small—is invited. Deposits of \$1.00 and upwards received in the Savings Department-Interest paid 4 times a year-

78 Branches throughout Canada.

Has your Horse an old Strain or Swelling?

Here's the way to cure it.

Rub three teaspoonfuls of Fellows' Leeming's Essence in the sore place, and repeat the rubbing in 24 hours if a sweat or running does not appear.

This running turns to a scurf and forms a firm bandage on the part. So long as it stays over the strain or swelling, the effect of the dressing holds good. In 14 to 16 days, the scurf falls off and the horse is well.

And you can work the horse all the time Fellows' Leeming's Essence is curing it.

Try it on your horse. Get

for Lameness in Horses.

soc. a bottle. If your dealer has none, write NATIONAL DRUG & CHEMICAL CO., LIMITED, MONTREAL,

CREAM SEPARATOR



WEARS LONGEST

as well as skims cleanest. Time has proved the simple, strong construction of the U. S. is more durable than any other separator.

Used 14 Years Repairs 75 Cents

FORD DU Lac, Wis., Nov. 8, 1906.
To whom it may concern:
I have used one of your U. S. Separators for the past fourteen years and it has given the very best satisfaction. I have paid 75 cents for extras since get-

ting the machine. I cannot recommend the U. S. too highly, J. Balson.

27 pictures with plain, easy-to-understand explanations in our new catalogue, make the construction and operation of the U.S. as plain as though the machine was before you. Let us send you a free copy. Just write: "Send Construction Catalogue No. 110". Write today. Don't buy a Gream Separator belore you see this book.

FARM MACHINE COMPANY Bellows Falls, Vt.

below zero outside. The heat was supplied only by the animals, and if any were diseased the healthy ones suffered. Tuberculosis in cattle was

high compliment for the excellent work they had done in building up so great an industry. They should now

President Creelman, of the Ontario Agricultural College; Hon. Mr. Mon-teith, Minister of Agriculture for On-tario, and Dr. Mills also gave ad-dresses. Mr. Monteith outlined to some extent what his department is butter making.

MAKERS' DAY

Thursday morning's session was opened by an address by Mr. G. A. Putnam, Director of Darrying, in which he outlined the work being done by the Department of Agriculture to help the dairy industry of the province. He referred to the work of the Women's Institute and what was being done by that organization to build up the home He of the Agriculture of the Women's Institute and what was being done by that organization to build up the home He of the Agriculture of the Women's He of the Agriculture of the Women's He of the Agriculture of the Women's Agriculture of the Women's School of the W to a statement made at the recent Women's Institute gathering at Guelph that children raised on cows' milk only stand one chance in lifteen of pulling through, as compared with the child that is brought up by suckling its mother. The crying need, therefore, was absolute cleanliness in caring for milk on the farm. Most farmers know what is wanted, but do not put into practice what they know. There are 300 cheese factories which are still out of the syndicate work. These factories must be got

Mr. G. G. Publow, Chief Instructor for Eastern Ontario, followed with a report of the work of the past season. The work was similar to that of other years. The present system of applying for instruction is not satisfactory. Some provision should be made whereby he would know carlier in the season what factories

Speaking of the season's work in general he stated that the instructors must be better paid, as it was hard to keep good men. There was not the improvement in the milk expected. ed milk, due largely to the very hot



JOHN R. DARGAVEL, M.P.P. The new President of the Dairymen's Associa-tion of Eastern Ontario.

weather. While this was true, the general quality of the finished product was better than before, there the shipping of cheese too green. He regretted very much the removal of had been of the greatest assistance to him in previous years. An effort should be made to attend more of the annual meetings of factories.

factories. Factorymen were constantly asking for speakers for these meetings.

Mr. J. A. Ruddick, Dairy Commissioner, in leading the discussion commended very highly the work of Mr. Publow. The syndicate system of in-Publow. The syndicate system of in-struction is the proper one. It would however, be a decided advantage to have each syndicate organized with a set of officers. This would interest more people in the work and bring about more co-operation among fac tories. This plan has been followed with success in Quebec. In regard to the official referee, he would be glad to have an expression of opinion from the convention as to the appointment of such an official

In answer to a question, Mr. Pub-low said that in

Mr. D. M. MacPherson advised giving prizes for the best quality of milk, as well as for the best quality of cheese. He suggested that prizes be given to the patrons in the syndicates sending the best quality of milk to

souring types or lactic acid bacteria and those producing more or less gas. The first type was more common in cheese making, when the latter kind predominate there are more or less bad flavors. The lactic acid types are the basis of all starters. The other kind are very common about stables and in many factories. Very little care was taken on the average farm of the drinking water. There was as much typhoid fever in Canada last year as in England and Wales, with several times over the population. He had investigated some rust discoloration in cheese and found it due to same condition as re-ported upon several years ago. By thorough cleanliness the gas-forming hacteria could be largely climinated

bacteria could be largely eliminated in cheese and butter-making. In answer to a question, Mr. Publiow recommended steel in preference to iron whey tanks. They cost more but are worth the extra cost. He believed that nothing would help the outlier worst the will be completed.

GRADING AND SELLING CHEESE

on its merits. There should be a per-fect standard before everyone who judges or reports on cheese. One reason why fewer cheese were rejected was because there was a rising market

Mr. Ruddick, in reply to a question, stated that Canadian cheese were better made than New Zealand cheese. but our cheese is not as well handled out our cheese is not as well handled and does not reach the British con-sumer in as good condition as New Zealand cheese. Climatic conditions there are better than here. New Zealand cheese does not compete with

Canadian cheese, as they come in at a season when we do not send any. That is, their fresh made cheese does not come on the market at the same

not come on the market at the same time as our fresh cheese. Mr. Wieland, of Montreal, stated that the chief reason why the New Zealand cheese sold for three shil-lings more than Canadian in 1905 was because they sold during the time of the year when the market is the high-

In answer to a question, Mr. Pub-low stated, the three things required to improve quality are: Deliver milk rooms, and have less jealousy in the

Prof. Dean, of the Ontario Agri-cultural College, opened the after-noon's session in a well thought out

MOISTURE IN CHEESE

butter and milk. The water in cheese is the natural water of the milk, while ated in the making Considerable moisture can be incorporated in cheese to advantage. Quity, not quantity, its the second the products continued the method used continued to the method used continued to the method used amount of moisture in butter, the amount of which cost only \$5.00. Even to-day we know very little about the principles of cheese making. For ated in the making. the principles of cheese making. For instance, no maker can tell the exact percentage in his curds at any stage. The maker should know this, and this the maker should know this, and this cheap apparatus would enable the maker to do this. There should be some relation between the weight of the curd and cheese and the percentage of moisture. A given volume centage of moisture. A given volume of ourd when water was taken out became lighter, due to the moisture held mechanically between the particles of curd. 17 e.e. of curds will weigh about 1-10 of a grain less when the particles of curd. 18 e.e. of curds will weigh about 1-10 of a grain less when the particles of curds fairly between the particles and the particles are t lation between moisture in butter and the overrun. He quoted the result of tests to prove this. Wherever methods were adopted to increase over-run, the quality was injured. Curd containing 70 to 80 per cent. moisture at hooping had 35 per cent. when in green choose. It may be when in green cheese. It may be possible for a cheese maker to increase moisture in cheese without increase moisture in cheese without injuring quality, but the maker should go slowly. It is possible to leave from 50 to 52 per cent of moisture at dipping and turn out a first-class article. Cheese made this way was scored 99 points by Montreal buyers, while cheese with the ordinary amount of moisture of from 45 degrees to the cheese with the ordinary amount of moisture of from 45 degrees to 47 degrees per cent, only scored 97 points. The former was a little weak in color, while the latter was weak in texture. He asked for volunteers among the makers who would under to make an experiment on this moisture question.

that from 1½ to 2½ lbs. of salt per cwt. of curd was sufficient. Many makers use too much salt. Cheese with more moisture in should not be cured at a high temperature. Found best results by curing cheese at a temperature of 40 degrees. Cheese made and cured at 40 degrees scored more than cheese cured at 60 degrees.

After a period of from 4 to 6 weeks, rate of ripening is about the same

at both 40 and 60 degrees.

In reply to a question, he outlined the steel boiler shell for a whey tank. He would never put a whey tank of any kind in the ground. Tank at col-

lege is 4 feet wide, 6 feet high, cost \$40. A 15,000 lb. tank, quarter inch steel, will cost about \$110 f.o.b. An ejector or pump should be used to

elevate whey.

Mr. Ruddick, before beginning his regular address, stated that in

COOL CURING

they had advised makers not to include too much moisture in the cheese when brought to the cooling station. It is important that all cheese should be put into the cool curing room as soon as possible, though green cheese are apt to become mouldy if not al-lowed to dry off somewhat. He then gave some information regarding the development of our export trade in these. The first shipment was made in 1866. At first the buver visited cheese. The first shipment was made in 1866. At first the buyer visited the factories and found out what was on hand and cabled to the old coun-try for prices. Then came cheese markets, which helped the situation very much. Of late years the Can-adian trade were buying outright here and there, and offering to the English dealer. In regard to selling cheese on their merits, he instanced the case of some factories that sold for 14 cent more than the price in the district. Some cheese sold for 1 cent per lb. more in England than the cheese from neighboring factories. In regard to grading, he thought it could not be satisfactorily conducted under our grading, ne unducted under satisfactorily conducted under satisfactorily During the past few years we have made considerable progress among the consumers in Great Brit-ain. Dealing with the

SHIPPING OF GREEN CHEESE

he read letters from several old country firms condemning the practice, and stating that it has seriously injured the quality of the past season's make, They also complained of loss in weight due to the same cause. In New Zealand 3 per cent, is deducted from the gross weight for shrinkage in shipping. It is a serious menace to the Canadian cheese trade. While to the Canadian cheese trade. While the exporter is to blame somewhat for buying green cheese, he was of the opinion that the seller was to blame in not holding his cheese until they are ready to ship. He gave an account of some small cheese, made in June and cured in the cool-curing room all summer, and the quality was good. He was of the opinion that we do not get that fine "cheesy" flavor in cheese cured at a very low temperature, as at about 60 degrees. They are apt to be insipid if cured at too low a temperature.

SALESMEN'S SIDE

A salesman stated that buyers send men around and offer so cheese are shipped at a certain date and the factory should not be to blame for accepting the offer.

Replying, Mr. Ruddick stated that if the trade is injured by shipping green cheese, it will react against the

producer. Mr. H. A. Hodgson, representing the Montreal Produce Merchants' Asplained that a few years ago some buyers were under the impression that green cheese would cure in storage, green cheese would cure in storage, started to buy close to the hoops. They had found out that such cheese would not cure and consequently injured the trade. In regard to a referre, the buyers were willing to co-operate with the factory men in this particular. Retrieving to the trade their firm had many letters from the factory of the control of the

(Continued on Page 71.)





Old Times, Old Friends, Old Love There are no days like the good old days.

The days when we were youthful! When humankind were pure of mind, And speech and deed were truthful; Before a love for sordid gold

Became each man's ruling passion,

Slave to the tyrant Fashion.

There are no girls like the good old

Against the world I'd stake 'em;

As the Lord knew how to make em They were rich in spirit and common

sense,
And piety all supportin';
They could bake and brew, and had
taught school, too.
And they made such likely courtin'.

There are no boys like the good old

When we were boys together; When the grass was sweet to the brown bare feet

That dimpled the laughing heather; When the pewee sung to the summer

Of the bee in the billowy clover, Or down by the mill the whip-poor-Will

Echoed his night song over.

There is no love like the good old The love that mother gave us.

We are old, old men, yet we pine again

For that precious grace-God save So we dream and dream of the good

our hearts grow tenderer, fonder, As those dear old dreams bring sooth-

ing gleams Of heaven away off yonder.

-Eugene Field. 38

Too Many Cooks

The "county cook" stood in the lane at the back of the school buildings, and shaded her eyes from the sun, which was setting in a bank of purple clouds. In her trim black gown, with the starched apron and dainty white sleeves, she looked as fresh as though the South Kensing-ton College of Cookery had but that instant turned her out, armed with the diploma that had secured her appointment under the County Council. At the present moment, she also possessed a very impatient frown, the cause of which lay in a note she held

in her hand. Viva Kerr read the ill-spelled letter once more and sighed. It was her custom to hold a weekly demonstra-tion and lecture at the remote townlet of Hillstone, and on these occasions Mrs. Thompson, the wife of a local gamekeeper, acted as her assistant. At the moment when she had completed all her preparations for the class, a shock-headed boy had ap-peared with the disturbing letter:

"Dear Madam," it ran. "I'm sorry to say as I'm ill with the sore throat, so I cannot oblige you to-night, and being so late I can't find you no one being so late I can't nin you no one else but my cousin, him being up at the squire's and in the house, so will be handy and useful, and I've sent him word this minute, so he will be sure to oblige you. Yours obedibe sure to oblige you. Yours obediently. Sarah Thompson.

The village clock struck eight, and still Viva waited for her assistant. Apparently, the obliging youth omit-Apparently, the obliging youth office ted punctuality from his stock of virtues. As the last stroke died away, and the girl turned to go inside the schoolhouse, a man rode furiously down the lane on a bicycle. and, like the clothes of the rider, had seen better days. Viva saw a dark, youthful face, and noted that the flies on his old cap and the white neckcloth, twisted round his throat in place of collar, gave the man more the appearance of a groom than that

of an indoor servant.
"Are you from the Hall? Stop this instant!" she called out in a very

The man stared, but jumped off his

bicycle. "Yes, I'm Hall," he said, gazing at

the girl.
Viva hardly heard the answer.
"I've been waiting ages," she said, in an aggrieved manner. "I was told to expect you at the cookery class to-night.

"Cookery class?" The man's countenance cleared. "Yes, I did promise something—" he began, but he spoke something-" h to Viva's back.

"Follow me quickly, and don't waste

There was a smile on the man's After was a smile on the man's face, as he obeyed these instructions, but when he had passed the door of the schoolhouse, the grin faded to a genuine look of fear.

The room was large and bare. On a raised platform stood a gas stove, and on the table there was a collection of cooking utensils and provi-sions. All this was harmless enough but what brought the bashful red to Hall's face and fixed it there was the with the petticoat brigade-most of them young, and a fair proportion quite pretty.

Notebooks in hand, they sat around on the forms. Some looked bored, and were obviously there under protest, while others were so eager their search after new recipes that they did not need a ring to label them "Engaged." All of them stared at the masculine intruder.

The charming cook stepped on to the platform,

"I'm exceedingly sorry to be late in starting," she said, "but my assis-tant kept me waiting. However, we will lose no more time."

She hurriedly gave out the initial recipe, and then turned to the thoroughly alarmed Hall.
"You'd better have this on," she

observed, and then she started to tie a very serviceable looking apron about him. Hall placed desperate hands to

"Not for worlds!" he exclaimed; "and really, Miss-er-"
The black eyebrows arched them-

selves in a disagreeable manner.
"It is simply to save your clothes,"
she remarked acidly. "If I"—such an she remarked acidly. "If I"—such ar accent on the "I"—"do not mind wear ing an apron, surely you need not

Hall felt himself dwindling visibly. "Look here, Miss—er," he began,
"I really must explain, You're making a mistake. Do listen! I don't know what you expect me to do,

He stopped in despair, for Viva, He stopped in despair, for Yiva, who noticed that the class was waiting, cut in hurriedly. "Can't you see you're keeping us waiting?" she cried. "I've been hindered and bothered enough as it is, without you. You don't know what to do? Simply do as I tell you. You might surely try and help, in-stead of putting obstacles in my way." Hall looked at her. Anger had deep-

Hall looked at her. Anger had deep-ened her flush to a deep carnation color, and her gray eyes had darkened to purple pansies. A sudden admira-tion glowed in his face. "If you put it like that, of course, 'Il you put it like that, of course, 'Il do all I can," he said, and Viva nodded. She noticed now that the clean shaven face had deceived her. Her assistant was an older man that the clean shaven face had been to be. "Evidently stupping the shavered was her deduction." Then, shavered

was her deduction. Then, absorbed in her work, she forgot all about her assistant. For his part, he watched

"That's a young madam," he decided, as her high-pitched voice laid down the law on the science of cook-ery. The slight element of authority ery. The slight element of authority which her position gave her was evi-dently pleasing to the girl, but her vigorous grace and the energy with which she worked made Hall gaze at her with pleasure, while he mechanically tried to cope with her abrupt demands for "bowl" or "spoon." Suddenly, as she was about to place a dish on the stove, she met his gaze, and the admiration made her redden with annoyance.

"Just watch this pastry, and turn down the gas in five minutes time, exactly," she commanded as she turned away.

Her recipes were the simplest, and were evidently selected to meet the needs of a rural population. Baked haddock and cottage pie did not prove inspiring, so once again Hall watched the wavy black hair, and marked the

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the door and slammed down on the table a tray of blackened pastry, while Hall heartily wished the ground would with the sympathetic dust of King

with anger.
"This is exceedingly annoying, as

"The sceedingly sorry for the accident," he said, "and as I gather some inconvenience may result, will you kindly allow me to make good the deficiency?"

The class stared at the speaker, and Miss Kerr's eyes opened in surprise. This was not the kind of speech she

flour whirled round in a white cyclone

"As I am about fifteen years out of practice I hope you will wait about ten minutes to see if I have vindicated

He need not have troubled. The class had no intention of disbanding until it had seen those tartlets emerge

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from the oven. And when after a short time they appeared from that fiery trial to be subjected to the hotclamations arose. Such a triumph of cookery had never been witnessed in Hillstone before.

And the county cost and a saw the room grow empty, as the class melted away and she was at last left alone with her assistant.

once in five years, and was here fishing. Met the squire, and he invited
me to try his preserves. He happened to mention that he had to put
m one attendance at the cookery
class, and I offered to look in for
him, went on Hall.
Viva's sigh was indicative of the
resignation of despair.
Well, I suppose I've quite done
"Well, I suppose I've quite done

to finish up in the orthodox way by washing up. Won't you help me? It's rather fun."

So Viva took up a towel and helped

35.

Night Express

sky, where the rails run straight and far;

with savage warning blown.

Tis the night express, and well 'tis named, for behold, from out the night It comes and darkly adown the rails

When sudden and swift through the shadowy mist the night express goes by!

-St. Nicholas.



New Century Ball Bearing Washing Machine — not because was yo.—bousands are taking about 14, and you would be if the property of the property



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Most every day when I'm at school The teacher tells us things And presidents and kings, And then, at n.ght, when I ast pa If what she says is so, e reads his paper right along And says: "Oh, I dunno!"

One day she told us that the world Is round, just like a ball. And that there's nothing down below It's standin' on at all. I ast pa if she told the truth, He read his paper, though, And put his feet up on a chair, And said: "Oh, I dunno!"

And once the teacher said the sky Ain't heaven's floor, and tried To make us think no angels walk Along the other side, And so that night I ast my pa, And all he said was: "Oh, Don't bother me about such things. I'm busy—I dunno!"

One time a bigger boy, he said The doctor didn't bring My little baby sister in A box—no such thing!

That night I ast my pa if what

That big boy said was so,

And pa he answered: "Oh, keep

still—

I used to kind of think somehow That my pa knew a lot— But that was wrong, or if he did I guess that he's forgot. Since I've got started into school Most every day or so I hear about a hundred things Pa doesn't seem to know.

32

How Bessie Filled a Day

By M. J. S. "It will be such a long day!" sighed

"It will be such a long day!" sighed Bessie. "It does seem as though I just could not live it through!"
"Why don't you fill it up with something—then it won't be empty, Just think of the nine hours that I am gone as mine great dishes that must be filled." What at tit! "What at the filled bessie, wonder—"What at the hierost thing to put the the service—something useful.

in them is service—something useful. If you could find something that would made some one else happy, that would fill faster than anything.

"Tell me how," said Bessie, who was watching her mother tie on her was watching ner mother the on her veil and prepare for a day in the city. Bessie was to stay with her Aunt Helen and grandmother, but as the country was a little strange to her, she dreaded it very much. "Well," said mother, "come out to the plazza, and while I am waiting

for the carriage to take me to the sta-tion I will give you an idea of the things you can put in your nine hours, and they will fill up faster if you work moderately-without rushing

What till I have a pench, san Bessie, skipping away to her room. When she returned her mother be-gan: "First, I think it would be very nice to gather. Aunt Helen a large bouquet of wild flowers—she loves

them so well-and that will take you them so well—and that will take you on a pleasant journey down the road. When you have enough you can put them in that large bowl and set them in the corner of the piazza. Next, I would take a pile of those old picture books up in your room, and past the torn leaves very carefully, and carry them down to that little lame boy who lives by the church. days are very long to him. After that I would sit down on the piazza likely she will want you to arrange all the spools in her basket and look

ix mother's sometimes."
"Then there is gingerbread," broke in Bessie, eagerly.
"Oh, yes, there will be that and the glass of milk. But I see the carriage coming. I'll just say that Mrs. Loren's baby is almost never taken out in its carriage, because the mother has no time; and there are the letters to bring from the mail, and grandma does love to be read to and—good-by—there are those lovely poppy seeds, and no one to gather them-good-by the carriage turned out of the

It was just nine hours before she saw her mother again, but how they flew, and the day was full of surprises, just because she was looking for pleasant things to put in her hour-dishes. Uncle Henry said that his men in the lower meadow had nothing to drink, and there was lemonade made for them as an extra treat, and Bessie rode down in the hay-rack to carry it. She had kept her list tacked to the blind beside the piazza, and when-ever she was inclined to look at the clock she ran to see what she could

She met her mother with a beaming face. "They are just heaped!" she cried. "I don't believe I could rowd in one more thing in my hour-

little gift for frosting, and a plum for

the top."

"Good! goody!" cried Bessie. "But really the hour-dishes were nice, anyway." And so they were, for Bessie had learned the best recipe for making happy days.

Tomahawk Throwing

When the writer was a small lad in Kentucky, it was the ambition of the boys, not to go and kill Indians, but to be able to throw a tomahawk with to be able to throw a tomahawk with the skill and accuracy of our pioneer forebears, and the ability soon acquir-ed by the boys in throwing hatchets at targets was really remarkable. They would come up to within thirty feet of an old board fence with a whoop and a yell, then 'click' click' click' would go the hatchets, each and every one sticking fast in the board, either in a true vertical or horizontal line, as it pleased them. boyhood in Kentucky it has seemed to me that throwing the tomahawk should be one of the regular feats at all American athletic meets.—Dan Beard, in Woman's Home Companion.

If all the skies were sunshine, Our faces would be fain feel once more upon them If all the world were music.

Our hearts would often long
For one sweet strain of silence
To break the endless song.

To treak the value of the file of the file

Curious Advertisements

"Annual sale now on—Don't go elsewhere to be cheated—come in here."
"A lady wanted to sell her piano, as she is going away in a strong iron

"Two sisters want washing."
"Wanted-A room by two gentlemen about thirty feet long and twenty feet broad."

"Lost—A collie dog by a man on Saturday answering to Jim, with a brass collar around his neck and a

"Wanted-By a respectable girl, her passage to New York; willing to take care of children and a good sailor." "Respectable widow wants washing

on Tuesdays."
"For Sale—A pianoforte, the property of a musician with carved legs." A boy who can open oysters with

"Bulldog for sale; will eat anything; very fond of children."

A Short Sermon

asked in a tone vibrating with anxiety, asked in a tone vibrating with anxiety, "Father, is yours a long sermon to-day?" "No, Jimmy, not very?" "But how long? Please tell me." "Well, about twenty minutes, I should say, But why are you so anxious to know?" "Because, father, the boys say they will thrash me awfully if you are more will thrash me awfully if you are more

Jefferson's Ten Rules

Never put off until to-morrow what you can do to-day. Never trouble another for what you

can do yourself.

Never spend your money before you have made it.

Never buy what you don't want because it is cheap.

Pride costs more than hunger, thirst and cold.

We seldom repent of having eaten

too little. Nothing is troublesome that we do

How much pain the evils that have never happened have cost us. Take things always by the smooth

When angry, count ten before you speak; when very angry, count a hun-

30.

Paul: "What yer git fo' C'rissmus, 'Ginny?" Virginia: "Mammy's ole gum shoes.

What yo' git?"
Paul: "I hain't quite shuah yit,
but I fink pop's done fo'get t' lick
me fo' suckin' dem aigs lars' night!"

Sunday at Home

New Years Day, 1007

Another year it numbers Among the years that's gone; Many in the grave now slumbers That last year's sun shone upon.

Another twelve months here;
Many now gone had hopes to see
Their friends on this new year.

But death hath come, and laid low

We often meet, upon the street, Those who deep mourning dresses

wear.

Short as a span—the life of man, Although long life all long to have, In many a case, short is the race,

Taking Up Life's Tasks

Sorrow came to you yesterday and emptied your home. Your first impulse now is to give up and sit down amid the wreck of your hopes. But you dare not do it. You are in darkness deepens about us and creeps into our heart, and our strength changes to weakness. But, if we turn away from the gloom and take up the tasks and duties to which God calls us, the light will come again and we shall grow stronger.—Select-.58

A theological student was sent one Sunday to supply a vacant pulpit in a Connecticut valley town. A few days after he received a copy of the weekly paper of that place with the following item marked. "Rev. —, of the senior class at Yale seminary, supplied the pulpit at the Congrega-tional Church last Sunday, and the church will now be closed three weeks

My Book

About Curing DEAFNESS AND EYE DISEASES

I have pub- AT HOME rese without a ving home to to read ress. Head to research to read the research to read the research to read the research to read the research to rese

only how to cure these diseases, but how to prevent bindiness and deathers. So is every home in the United States. Write me a letter or a postal card and tell me your disease and you will receive this grand book how people from every state in the United States are restoring their sight and hearing at home by this new method. It has been supported by the property of the property o

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A 2000-000-000-000-00-00-00-0 Health in the Home

Almond oil and lanolin in equal parts rubbed into the eyebrows will stimulate their growth.

For a greasy, oily skin, put some astringent, a little alcohol or toilet

If the hair is very oily and hard to cleanse, add a tablespoonful of alcohol to a large basin of water. Warts and corns may be removed by touching them daily with a fea-ther dipped in tincture of iodine.

A towel dipped in hot water, wrung out and applied to the back of the neck will cure the severest of head-

One of the best cures for indigestion and biliousness is a series of exercises that bring the abdominal

If the skin is hard, dry and wrinkled, use almond meal instead of soap; it will not deprive the skin of its

natural oil, as many soaps do.

Hair that is thin and dry needs a tonic. A simple and effective one is made of bay rum, 4 ozs.; tincture of cantharides, 2 drachms.

An inexpensive and excellent tooth-powder is made of equal parts of pow-dered castile soap, powdered orris root and precipitated chalk. Powdered charcoal will sweeten the

breath. After eating onions, if a little is taken into the mouth the offensive odor will be taken from the

Knitting as a Nerve Cure

It is told of Robert Louis Stevenson that one of the many things he learned to do to keep him anused when he was restless or ill was to knit. There are many men of a generation much older than ours who improve odd moments by working with yarn and needles. But women, to be women, simply must knit after their hair is gray, and it is good for them "My is gray, and it is good for them. By prescription, madam, is that you knit two hours daily," said the physician. "Knit?" exclaimed the nervous patient. "Why on earth should I knit?" The doctor replied: "Because nothing is more soothing to the nerves; because more sootling to the nerves; because nothing conduces to such a calm and cheerful frame of mind. I could prescribe valerian for you, but knitting will be better. It will do you much more good. I believe that a month of it will cure you."

Apples As Medicine

Apples are such a common fruit Apples are sucn a common trutt that few persons are familiar with their remarkably efficacious medicinal properties. All persons ought to know that the very best thing they know that the very best thing they can do is to eat apples. The apple is an excellent brain food, because it has more phosphoric acid in easily digestible shape than any vegetable known. It excites the action of the liver, promotes sound and healthy sleep, and thoroughly disinfects the agalantiates it not all. The action of the sounds healthy sleep, and thoroughly disinfects the agalantiates it not all. The stomach helps the kilney seemed of the stomach helps the kilney seemed as the stomach helps the sto

stomach, helps the kidney secretions, stomach, helps the kidney secretions, and prevents calculus growths, while it obviates indigestion, and is one of the best preventives known for diseases of the throat. In addition, next to the orange and the lemon, it is the best antidote for thirst and craving of the person addicted to the alcohol of the person addicted to the alcohol or opium habit.

IN THE KITCHEN

A Ballad of Vegetables

A potato went out on a mash And sought an onion bed; "That's pie for me!" observed the

squash,
And all the beets turned red.
"Go 'way!" the onion, weeping, cried;
"Your love I cannot be;
The pumpkin be your awful bride—

And it will smell at wheat; And I, too, am an earlyrose, And you I've come to see; So don't turnip your lovely nose.

Go, think that you have never seen Myself, or smelled my sigh; Too long a maiden I have been

"Ah, spare a cuss!" the tuber prayed; "My cherryshed bride you'll be; You are the only weeping maid That's current now with me!" And as the wily tuber spoke
He caught her by surprise,
And, giving her an artichoke,
Devoured her with his eyes.
—Joseph Mechan, in Philadelphia

Uses for Old Newspapers

Newspapers are excellent to put things away in, as insects do not like the ink.

They are excellent in polishing

glass, copper, nickel, agateware. They are good to use for the top of the stove, the bottom of the frying-pan.

the sink.
If you always cut up your vegetables over a spread newspaper you save clatter and can remove the waste. Preserve jars and jelly tumblers put away in newspapers with an elas-

tic around the top are kept dark. The elastic admits of easily slipping down to see the condition of the fruit or

the label.

The sugar bags are useful, too. Pies can be slipped in them. Cakes and cookies can be put away in them. Folded wrapping paper and strings will be always in readiness; if kept in these bags. They are stiff and will make excellent covers for dishes, containing food that must be left in the

Turnip Souffle

A turnip souffle is a very nice dinner dish to serve with lamb Boil sliced turnip until tender and mash thoroughly. Better still, put them through a fine colander. Return them through a fine colander. Return them to the fire with the addition of a roux made with a tablespoonful each of butter and flour. Season and add a cupful of hot milk. Stir the mixture until it boils. Take from the fire and beat hard, stirring into it gradually two beaten eggs. Pour into a greased porcelain dish and bake in a quick own. Serve at once or, like all quick oven. Serve at once, or, like all souffles, it will fail.

Cabbage Cooked Without Water

half a cup of lard into an iron pot, add the cabbage, and keep stirring until cooked. Add one cup of cream, half a cup of vinegar, pepper and salt

Fruit Cake

Four eggs, three cups of sugar (brown), one and a half cups of butter, one and a half cups of molasses, one pound seedless raisins (chopped), one pound currants, one pound citron (chopped fine), half a pound of figs (chopped), seven cups of flour, one teaspoonful of soda. Dissolve in a

Note—This will make two good-sized loaves. Bake three hours. Add one wine glass of brandy.

Paste That Will Keep

powdered, one-fourth ounce; glycerine one and one-half ounces; oil of winter green, one drachm; water, one and one-half pints.

Mix the water, flour and alum to a smooth paste and boil till it thickens (be careful and not let it burn or

Cleaning A Clothes Closet

It is a good idea to spray clothes closets with a weak solution of car-35

will disappear, leaving the stuff look ing as good as new

Paint may be removed from clothing by the application of equal parts of ammonia and turpentine well shaken together. Apply carefully to the actual paint spot and let it penetrate for five or ten minutes; repeat two or three times and the paint will come off in flakes. In wash fabrics this treatment is very successful, even if the paint has been dried on for a long period.

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IN THE SEWING ROOM

May Manton's Hints

FANCY POINTED YOKE WAIST 5552

frimming varied to suit individual tastes. All-over lace makes an exceedingly handsome yoke, but there are lingeric materials that are liked

backs and the chemisette. The various parts are arranged over the lina and the gardle is attached to closing being and the gardle is attached to closing being expected to the state of the control of th



5552 Pointed Yoke 32 to 40 bust,

5554 Box Coat 32 to 42 bust.

To be made with shawl or regula-tion collar and lapels.

The box coat is an eminently fashmanble one just now and is exceedingly becoming as well as smart. This single sails both the costume and the separate wrap and consequently almost all seasonable materials. In the illustration, however, it is made of kersey, with collar and cuffs of velvet and cloth combined and is trimmed with handsome buttons, the edges being finished with simple tailor stitching with belding silk. If the shawl collar is not liked the regulation one with lapels can be substituted and these can be all of velvet or the collar of velvet with lapels of cloth as preferred. Again, the cuffs can be The box coat is an eminently fa-

made of one material if better liked. Contrasts of color, too, can be used as such combination as leather color on green or blue, dark green or black and the like are much in vogue.

The coat is made with fronts and back. The fronts are supplied with generous patch pockets and the neck can be finished either with the shawl faced and turned back to form lapels, while the regulation collar is joined to the neck edge. The sleeves are in coat style, the cuffs at their lower in coat style, the cuffs at their lower edges being rolled over the seams.

a 32, 34, 36, 38, 40 and 42 inch bust



5512 Seven Gored Walking Skirt. 22 to 32 waist.

5513 Boy's Russian Suit, 4 and 6 years.

is laid in box plaits at the front, back and sides that are stitched flat for a portion of their length and pressed into position below. The closing is made beneath the plaits at the back and the trimming is arranged over the lower edge of the skirt.

belt and trimming.

The pattern 5513 is cut in sizes for boys of 4 and 6 years of age.

The price of each of the above patterns postpaid is only 10 cents. Send orders to The Farming World, Morang Building, Toronto, giving the size wanted.



OUR COURSE IN

BOOKKEEPING

by Mail it just the thing for these winter evenings. Why not improve by taking it? The cost is trilling. The results are excellent. Cut out this adv. and send it to us, and receive particulars by return mail. Address

The SHAW CORRESPONDENCE SCHOOL

393 Yonge St., Toronto W. H. SHAW, President

HUNTERS

Make More Money

by sending Furs direct to us. We pay what otherwise would have been spent in travelling expenses and commissions over and above what buyers will give you,

REVILLON BROS. LIMITED. 134, McGILL STREET, MONTREAL

SORE EVES Strained, Inflamed or decased eves, granular bloodshot eyes, weak, tired or watery eyes, and eves that ache, use Schlegel's magic eyes lotton, a for free sample bottle and full information. For close 25 strainp. Address H. T. Schlegel Co. 1433 Pame Bank Bidg., Peorla, III.

GureYour Rupture



It does not, why not! at because the pad is not the proper one to retain the

e. you know, you can hold it back with your fingers, a they will cover and all the opening Vitio me tous, and the days rial treatment alia, and up id days rial treatment and united free of charge. Address a absolutely free of charge. Address B. B., 237 Chamber of Commerce, Betroft, Mich., U.S.A. or Brawer III; B., Windsor, Ont.

How to Fertilize

Fiver farmer know that plants need Freed as meet as cattle. We know too, that plants cannot get all the Food they need out of the cround atom. He must supply and hear there for the state of the state of the state and hear there find yield of rout. Exactly as he supplies may and outs to this horee so be must supply. Mitrogen, in the orien mixed exactly as jeed see his hay or the oats, "complete fertilizes," There is no secret value in the complete fertilizes," There is no secret value in the complete fertilizes, "There is no secret value in the of the time. Mitrogen he by far the most expendite and if a of the time. Mitrogen he by far the most expendite and if a or in the combination form of the contract of the contract of the norm of the time.

THE BEST AND CHEAPEST AMMONIATE

The cheapest and most practical form, in which to remind inforces in plants is Nitrots of Sodia, in the interminding of the plants of Nitrots of Sodia, in the contribution of Nitrots of Sodia, in the Nitrots in the Nitrots of Sodia, in the Nitrots is substituted in the Nitrots in the Nitrots in Sodia, and the Nitrots in Nitrots in Sodia, and the Nitrots in Sodia in Sodia in Nitrots in the Sodia in Nitrots in the Sodia Nitrots in the Sodia Nitrots in the Sodia Nitrots in the Sodia i

A GREAT SAVING

In view of these facts It seems extraordinary the framers should continue to purchase their Nitrogen it compound form with phosphate and potsats, when they immediate use, in the form of Nitrate of odd. Some years ago the New Jersey Experiment Station, after interesting the second of the property of the particles of the various constituents, to be \$5.560 per nonseminations the second value of the plant food was a lose as \$15.00 per ton, while the price per no was \$55.00 more than it is worth. Available Nitrogen in the form a Nitrate of Soda costs about 17 cents per pound. If conour the second was the second value of the plant of the variety of the plant of the plant of the form of Nitrate of Soda costs about 17 cents per pound. If contracting the plant, for it must be converted into the ax load for the plants, for it must be converted into the second per plants, for it must be converted into all and the kind and condition of the material used.

HOW IT HELPS CROPS

abundance of the right kind of food when I is young it becomes stanted it growth, and were recovery from it, an entitle the process of the process of the control of the co

rapid maturity is desirable. It is a special help to HAY GRAIN, RYE, WHEAT, TIMOTHY, ORCHARD or other cereals or grasses, all of which are unable to obtain sufficient introgen from the soil just when they need it it is a great specific in the production of SUGAR BEETS FOTATOES, COTFON and CANE.

Small fruits such as BLACKHERRIES, CURRANTS RASPBERRIES and GOOSEBERRIES, which need a steady, even growth are greatly benefited by Nitrate o Soda, which can be furnished all ready for absorption when the plants require it.

The highest agricultural authorities have established by careful experimentation that 100 pounds per acres of Soda applied to crops has produced the

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hbages 6,100 Pound trots 7,800 Pound done 1,800 Pound trots 37 per cent. rawberries 200 quarts. quargus 100 bunches.

Nitrate of Soda is a plant tonic, and an energizer; it is Nor a stimulant in any sense of the work. Phosphatte and Potassic manures should usually be applied in connection with Nitrate of Soda at the rate of about 250 pounds to the acre of each. We do not recommend the use of Nitrate of Soda alone except at the

HOW TO LEARN ABOUT IT

The Nitrate mines in Chill are supervised by the government shall authentic information is annually circulated about Nitrate of Social Market and the Child of the Child of the Child of the Child of the maintained. Advertisements have been placed in the leading agricultural papers and offices established at John Street and 71 Nassau Street. New York, for giving out information in regard to actual tests made with

RESULTS ON HAY

sent to farmers to experiment on throthy. In each case

I. E. HAPPLE, COCOLAMES, PENNA, Plot without Nitrate, 28 lbs.; with Nitrate, 53 lbs. Am well pleased with the result

"Am well pleased with the result."

ALONZO J. BRYAN, HUNTERDON, N.J.

Flot without Nitrate, 31 lbs.; with Nitrate, 6342 lbs.

The Nitrate made wonderful results."
Chas. J. Groth, Springville, N.Y.
Plot without Nitrate 78, be with Nitrate 147, be

Plot without Nitrate, 78 lbs.; with Nitrate, 147 lbs.; Cut Nitrate plot twice."

Plot without Nitrate, 68 lbs.; plot with Nitrate, 91 lbs
"Much pleased with results."
LEONARD D. SPICKNALL, LA BELLE, Mo.

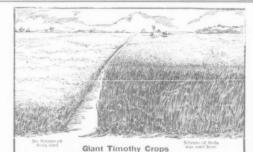
Plot without Nitrate, 44 lbs.; with Nitrate, 69 lbs.
"I consider Nitrate of Soda a most valuable producer as hay seems softer and brighter from Nitrate plot than. from the other."

WM. HENDERSON, ATHENS, PENNA.
Plot without Nitrate, 34 lbs.; with Nitrate, 60 lbs.
"It was a fine test."

The average of these tests show an increase of 2.775 bounds of field cured hay per acre with the use of 100 bounds Nitrate of Soia. Bearing in mind the fact that Vitrate of Soia costs \$2.25 to \$2.75 per 100 pounds it is correction; that it may be used to 100.

THE PURPOSE OF THE NITRATE PROPAGANDA

Free books, bulletins and all desired information are



An average increase of 2775 pounds per acre of field-cured bay was shown in its attract tests where Nitrate of Soda was used. Tests were made from Nova Scotia to Missouri, and 100 pounds of the sodia to the sodia to

Nitrate of Soda

was used per acre, at a cost of \$2.55 to \$2.51 per 100 pounds. Compare increase with cost of this great fertilizer. Compare fields shown in above actual reproduced photograph. Nitrate of Soda is best and cheapest ammoniate with which to finish. Nitrate of Soda is best and cheapest ammoniate with which

Test It for Yourself Entirely Free

Let us send sufficient Nitrate of Soda for you to try, asking only that you use according to a directions, and let us know the result. To the twenty-free farmers who get the best results, so offs as a price. For Veethers most valuable hook one fertilizers, their composition, and how to use it different cross. Handsonely bound, 375 spaces. Apply at once for Nitrate of Soda, as has offse accountly hands. "Sod for Plants," a Silvager who for our little and tree.

WILLIAM S. MYERS, Director, John Street and 71 Nassau, NEW YORK

so natches were marked out in the hay field, side by dec-each about 20 feet square, about 1-100 of an acrene received Nitrate of Soat, equivalent to 100 pounds on the square of the special square of the results reported, giving the weight of cured ay in each case; and a square of the square of

dorace Field, Mattarousett, Mass.
Plot without Nitrate, 60 lbs. Plot with Nitrate, 60 lb.
"Hay was well made. Nitrate plot ready to cut te lays earlier than plot without Nitrate and the growt was much heavier on the Nitrate plot."

WILLIAM NORMAN, TOLEDO, O.
Plot without Nitrate, 60 lbs. Plot with, 62 lbs.
"This is what I call dynamite soda."

E. P. NANCE, OAK LEVEL, KY, Plot without Nitrate, 70 lbs. Plot with Nitrate, 104 lbs.

OLE O. HATLEDAL, BENSON, MINN.

Plot without Nitrate, 20 ibs. With Nitrate, 52 ibs.

"Plot with Nitrate now thick with grass again and we produce second error of bay. Plot without Nitrate we

produce second crop of hay. Plot without Nitrate will not be worth cutting again. DAVID H. EPPLEY, MUSKINGUM, O. "Plot without Nitrate, 42½ lbs.; with Nitrate, 78 tbs."

ths."

"Am much pleased and only wish I had used it on my whole field."

whole field."

Hernert J. France. Blairsville. Penna.

Plot without Nitrate, 63 lbs.; with Nitrate, 118 lbs.

"Hay was thoroughly cured when weighed. Plot
with Nitrate kept six or eight inches ahead all summer.

armers of the United States have seen Nitrate of Soda dvertisements and thousands have written in answer o them for free books.

No Nitrate is sold by the Nitrate Propaganda; it is maintained simply to put the facts clearly and accurately before the cultivators throughout the country, and rapidly they are finding out that Nitrate of Soda is the cheapest and by far the most practical form of supplying their crops with Nitrogen. It is the only instantly available Nitrogenous Food for paints.

FREE INFORMATION

To a limited number of farmers who want to know, the Propaganda, in addition to bulleting from agricultura experiment stations, giving results of actual trials with Nitrate of Sood, is sending a handsomely illustrated book "Pood for Plants," containing over 230 pages of matter which any farmer may understand, and which should be

Farmers who may not eare to make any of the experments, who would flile to know the results that other have obtained or who desire any information whatevconcerning Nitrate of Sodia, should write to William 8 t Myers. Director, John Street and 71 Nassau Stree. New York.

Fruit Growers Getting Busy

The Board of Directors of the Ontario Fruit Growers' Association met in Torouto on January 8th and electced the following officers: President, Harold Jones, Matlandy, Vice-President, Elmer Lick, Oshawa. The other members of the executive committee are: W. H. Bunting, St. Catharines; A. E. Sherrington, Walkerton, and P. W. Hodgetts, Secretary, Parliament Buildings, Toronto. Co-operative and transportation committees were appointed, the first

Co-operative and transportation committees were appointed, the first to look after the formation of co-operative shipping societies and the latter to deal with freight rate and express parcel problems.

An important move was that of taking action with the Fruit Growers' Association of Michigan towards seeming a reciprocal tariff between the

An important move was that of taking action with the Fruit Growers'
Association of Michigan towards securing a reciprocal tariff between the
two countries on fruit products. This
question was initiated by the Michigan
fruit men in December last,
when they passed a resolution favoring
a conference with Ontario growers
with a view to climinating, if possible,
all objectionable features from the
respective rates of the country and
adopting a schedule of reciprocal rates
that would be satisfactory to both.

Fruit Experiment Stations

The Board of Control of the Experimental Fruit Stations met on January 7th, at the Parliament Buildings, Toronto. There were present: G. C. Creelman, President of the Ontario Agricultural College; L. Woolverton, Secretary, Grimsby; E. Lick, Oshawa; W. T. Macoun, of the Ottawa Experimental Farm; H. L. Hutt, of the O.A.C.; A. M. Smith, St. Catharines, and P. W. Hodgetts, To-

ronto.

Last year's work was considered and a program of experiments for this year mapped out. One of the principal experiments will be a search for hardy peach stocks for plum roots, and it is hoped that in this way a hardy tree will be secured, suitable for that district. Work will also be conducted with a view to selecting the site for another station.

3

Fruit Growers' Protest

A meeting of the commercial fruit growers, held at Grimsby, Ont, on January 10th, strongly protested against the action of the directors of the Ontario Fruit Growers' Association in agreeing to discuss the question of reciprocity in fruit between Canada and the United States with the Michigan association. A mass meeting of the growers in the Niagara district will probably be held to make

.42

Principles and Practices of Pruning

Although a great deal has been said and written on this subject, much bad practice still prevails Orchards are seen all through the country which the work has been performed, it has done more harm than good. Trees with trunks trimmed up to three times the proper height, trees mutilated by the needless lopping off of large

branches, trees one sided and totally destitute of symmetry, or filled with a mass of brush, may be seen all over the country. A perfect orchard is a rarity. The same remark will apply to nurseries. The trees have been grown and trained with very little attention to a perfect shape, the chief object of the owner being to grow large trees in as little time as possible. The purchasers of such

attention to a perfect shape, the chief object of the owner being to grow large trees in as little time as possible. The purchasers of such trees after setting them out, either give little attention or, if they cultivate them well, allow them to form their own heads. They may be too tall, or one-sided, or distorted and irregular, no attention being given to shaping the heads when they are young.

When young trees are dug from the growth of the tools from accessity are more or less bruised or mutilated. All these bruised or torn surfaces should be pared off smoothly with a sharp knite. If left untouched they induce decay, and are unfavorable to the healthy growth of the tree. In the same way a broken or bruised limb above ground would furnish a dead stub or make a bad scar, while pruning it off smoothly will cause it to heal over readily.

mean over reasury. Thrity young trees usually have roots extending as far each way from the foot of the stem as the height of the tree. A careful examination will discover the whole surface of the subsoil occupied with the small fibers obviously impossible, therefore, in digging up to avoid cutting and leaving most of the roots behind, and the tree when re-set is unable to sustain or feed for a time its leaves and branches. A part must, therefore, be cut off to restore the balance, corresponding in some degree with the loss of the roots. This may be done by thinning out all the feeble shoots, so as to leave an even, well-shaped head, and then cutting back a part of each remaining one-year shoot. Judgment must be exercised as to the amount to be cut away from the tops. The growth of new roots depends on the assistance afforded by the leaves at the top, if the leaves are too few, the roots will not extend freely, if they are too numerous the roots cannot furnish proper supply for them, and they will be feelle and sickly. Planters will learn a great deal on this point by cutting away more or less on different trees and

observing the result.
Different kinds of trees require varying management in this respect. The peach, for example, readily reproduces new shoots, and it may, consequently, be cut back very freely—two-thirds to nine-tenths of each season's shoot may be reimoved without detriment. The grape, also, may be very heavily pruned, as it throws the very heavily pruned, as it throws cherry, on the contrary, is very sensitive, and young trees have been nearly killed by a severe summer pruning. The young cherry shoots should never be cut back in the spring more than half their length. The pear and apple are intermediate and the heads should be moderately and not severely

W. H. STEVENSON.

Ontario County.

Can Ontario Grow Her Own Seed

(Continued from Page 58.)

should not be regarded as objectionable, but a shrunken or bistered germ is very serious if the covering of the germ is raised to any considerable extent as a result of exposure or freezing. The vitality of such germs is almost invariably greatly impaired, if not wholly destroyed.

STARCHY, SHRUNKEN OR BLISTERED BACKS

Whenever exposure or freezing has been severe enough to blister the back of a kernel, its chances for germination are poor. This is one of the strongest indications of injury resulting from imperfect ripening. When the back of a tip shows a decided depression, it is strong evidence that the kernel has not had sufficient time to develop properly. A kernel depressed on the back is usually depressed on the back is usually demacked in the hard, horne glutenous material, and is therefore composed largely of starch.

CONDITION OF GERM AS INDICATED BY ITS CUTTING QUALITIES

A properly developed and carefully divided germ cuts readily and presents an oily appearance. It is light cream in the property of the first property of the property of the first property of the property of the first pro

SIZE OF EAR

The length and circumference of the ears chosen must be governed by the locality in which the corn is grown. The tendency has been, and still is, in the direction of growing varieties too large to mature properly. This is a mistake. It will prove more profitable to grow a smaller corn which will mature every year than to grow a large corn which seldom if

ever ripens properly.

In dent corns the proportion of length to circumference should be as four is to three, i.e., an ear ten inches long should measure seven inches in circumference about three and one-half inches from the butt. Short, thick-sat cars are inclined to have long, deep-set kernels, which makes it impossible for ears to dry out read-ly in the fall unless the variety has been carefully selected for years to combine early maturity with depth of kernel. It is, of course, advisable to grow as large and deep-grained a variety as can be safely depended a variety as can be safely depended

upon to mature in any given locality. In flint varieties the length of the ears differs so widely that it is a more difficult matter to establish a fair proportion. As a general rule the production of long pointed ears should be discouraged, as they are almost invariably poorly covered at the tip.

SPACE BETWEEN ROWS

Wide space is undesirable in any but deep-grained varieties. It is generally caused by rounding of the crowns. As there is no good reason why the kernel should not carry its sides squarely up to the shoulder and thus fill practically all the space with corn, wide spaces are severely cut.

DON'T BUY GASOLINE ENGINES "THE MARTER WORKMAN, Associated by the Marter Work of the Mart

In addition to the serious loss occa sioned by this conformation, the chief ground for objection to them is that they are an indication of degeneracy

PROPORTION OF CORN TO COB down a standard on this point which will apply to any considerable sec-tion. Dent varieties will range from 78 to 86 per cent. shelled corn; flint varieties will range from 74 to 81 per cent. A good average for the former cent. A good average for the torms, would be 82 per cent; for the latter 79 per cent. As it does not necessarily follow that a large ear will shell out more corn than a much selecting seed corn make up a solid ear. To ascertain the propertion of corn to cob, weigh the entire ear, shell the ear and find the weight of the grain, divide the weight of grain by the weight of grain and cob and the result will be the per-centage of corn.

averages considerably less than the average given; a number of varieties, as the result of years of careful breedas the result of years of careful breed-ing, exceed the average percentage. While it is desirable to grow corn giving a low percentage of cob, there is a point beyond which it is not safe to go. There seems to be a pro-per proportion or relation costing be-tween the corn and the cob bearing

(Continued from Page 62.)

Eastern Dairymen in Session

buyers must get down to paying just what the cheese are worth. Mr. J. R. Dargavel, M.P.P., read a telegram from a Montreal buyer strongly advocating

LICENSING MAKERS.

He stated that the Ontario Government had a system of licensing in view which would be put in force this

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es d-

Mr. Wieland, of Montreal, also Mr. Wieland, of Montreal, also spoke strongly deprecating the shipping of green cheese. Many complaints the past season in regard to shrinkage. Buyers figure on losing half a pound per box per month. If it goes above this, buyers lose too much. While the quality was good, there was a little too much of what is known as "mutual flavor," or a clean

flavor, but without character. Dr. J. W. Robertson was introduc-

DO DAIRYMEN MAKE MISTAKES

Prof. Dean addressed the evening meeting upon the mistakes of modern dairymen. What is needed among dairymen is more backbone. Too many dairymen are wasting their soil fertility. They are making mistakes in regard to the plants they are growing. Grow timothy for dairy cows, Alfalfa is one of the very best plants that the dairy farmer can grow. The that the dairy farmer can grow. The average dairy farmer is content with a 3,000 pound cow, when he should have cows that give yearly 8,000 to 10,000 pounds of milk. They do not feed their cows enough. The cow should be well fed during the winter, so that she will be in a positive. so that she will be in a position to give a good flow of milk in the sum-mer. The effect of poor feeding on poor dairy cattle being raised. Too many makers smoke, Many dairypoor dairy cathe smoke. Many dairy-many makers smoke. Many dairy-men cling to the old idea that aeratthing is to cool it. The cooling medium should not be put into the milk, but the milk should be put into the cooling medium. Many modern dairy men sell their product too cheaply. He compared the value of milk and beef as foods, and their relative values on the market. Modern dairymen make a mistake when they advertise to the world that we produce an impure milk. Tendency of the public is to expect too much of the

dairy investigation.

Mr. A. F. MacLaren, M.P., in a brief address complimented the east-

Dr. Robertson, of Macdonald College, Ste. Anne de Bellevue, Que., gave a splendid address. The destiny of Canada, he stated, will depend upon the thought power of her people. He reviewed the progress made in dairy was ing since the cheese industry was first introduced into Canada. Twenty years ago the exports were worth \$6,000,000; in 1896, about \$20,000,000; 1006, \$30,000,000. Those in the dairy business should not expect to get a synaphing for nothing. There must samething for nothing. business should not expect to get something for nothing. There must be a conservation of energy in the dairy business and the dominating power of intelligence over the whole thing. By applying this intelligence to the selection of seed, a marked improvement in the yield of crops could be effected. Very little effort cent, to the yield of grain crops, in Ontario. Another 25 per cent, in-crease could be secured by better creases could be secured by better crease could be secured by better crop rotation. The hay crop of 200 acres alone takes more fertility out of the land than \$6,000,000 worth of butter. He believed that it is possible to divide up our dairy farms so that more people may get a living out of the surface of the soil. Referring to good cows. Everything is not in the breeding of the cow; there is much in the rearing. Referring to the ques-tion of education, he said that a little try should be improved by doing things. Let the children do things for themselves. The full benefit of the agricultural college should reach down to the schools. After fourteen,

The final session on Friday more was devoted largely to finishing up the business of the convention. The meeting placed on record its appreciation of the work accomplished by the Dominion Government for dairying by the cool-curing stations, the operation of which will be discontinued. A resolution carried, though with some opposition, recommending that all factories be required to receive the services of the instructor, and that the annual fee for each factory be \$12. A resolution passed favoring a national dairy show, to be held in co-operation with the Western Ontario Dairymen's Association.

THE APPEAL IS TO YOU!

THE HOSPITAL FOR SICK CHILDREN

For it Cares for Every Sick Child in Ontario whose Parents Cannot Afford to Pay for Treatment.

#

The Hospital for Sick Children, College reet, Toronto, appeals to fathers and mothers of Ontario for funds to maintain the thousand sick

"HAPPY WITH HER DOLL.

children that it nurses within its walls every year.

The Hospital is not a local institution—but Provincial. The sick piace in Ontario who can't afford to

pay has the same privileges as the child living in Toronto and is treated free.

The Hospital had last year in its beds and cots 858 patients—331 of these were from 231 places outside of Toronto. The



Since its foun-

the Hospital has treated 12,120 children. About 8,500 of these were unable to pay and were treated free,



can put gol den hinges on the door Hospital's mercy. Every

may be the Need Somebody's

ehild. Your dollar may be a door of hope to mebody's child. The Hospital pays out somebody's child. The Hospital pays out dividends of health and happiness to suf-

little children.

If you know of any child in your neighborhood who

is sick or crippled or has club feet

send the parent's TWO CLUB FOOT CASES

See what can be done for club-foot chil-ren. There were 36 like cases last year and hundreds in 31 years.



Please send contributions to J. Ross Robertson, Chairman, or to Douglas David-on, Sec. Treas, of the Hospital for Sick Children, College Street, Toronto.

The directors, who were elected at special meetings, held in their respective districts, are as follows: John H. Singleton, Smith's Falls, Neil Fraser, Vankleck Hult, Edward Kidd, North Gower, J. D. Merlbind, Russell, Joint McGregor, Accanding, Russell, Joint McGregor, Accanding, Russell, Joint McGregor, Accanding Russell, Joint McGregor, Accanding Wontraker, North William Ghard, Robert James, Charleswiller, John R. Dargavel, Leying T. A. Thompson, Minomiet William Gharlier, Perli Road, Robert Metzler, Odessar, James Whitton, Wellman's Corners; T. R. Carlow, Warkworth; G. A. Gillespie, Peter borough; Henry Glendenning, Manilla, D. H. Young, Melville.

After the close of the convention After the close of the convention R. G. Murphy, Brockville, Our, Secretary.

Prince Edward Island

Prince Edward Island
We have had very little frost from
Dec 20th up to June 1st. On Dec
21st a big than set in, which greatly
reduced the size of the big snowbanks on the country roads. Rain
fell for several days. There was
very little driving in the city on
Christmas Day, as the snow was
nearly all gone off the streets. On
account of the prevalent wet weather
and bad roads the market has been
dull during the latter part of December, Merchants and others have felt
the loss keenly. The New Year was
ushered in by a heavy rannfall, which and during the latter part of December. Merchants and others have felt the loss keenly. The New Year was ushered in by a heavy ramifal, which continued nearly all day. The roads are very had in the country. Mr. Nicholi, of Murray Harbor, Mr. Nicholi, of Murray Harbor, but the state of the s

on the farm of J. F. McLeod, Cligg-on Dec. 31st.

The Government has decided to sell the stock farm. Some of the eartle on it were tuberculous and have been disposed of. Recently the farm has not been paying.

Dr. Saunders, director of the Cen-tral Experimental Farm, Ottawa, has written to Premier Peters, stating that the Department of Agriculture has selected a site for the Dominion Ex-perimental Farm in this province from one of the lots proposed by the Provincial Government.

CHARGOTTONEN MARKETS

Beef, qr., per lb., 5 to 6½c, small
10 to 12c, per lb., 5 to 6½c, small
10 to 12c, per lb., 5 to 6½c,
tab 21 to 22; eggs, per doz, 25 to
20c, flour, per cvt., \$2.20 to \$2.40;
fowl, per lb., 8 to 9c; geese, per lb., 10
10 to 11c; hay, per cvt., 35 to 96c;
ludes, per lb., 16c; fard, per lb., 11
to 16c; oats, per bu, 36c; pork,
carcass, 8 to 8½c, small 10 to 12c;
potatoes, per bu, 35 to 46c; sausages,
per lb., 14c; apples, per doz, 8 to 12c;
oatmeal, per cvt. \$2.25 to \$2.5c; turnips, per
bu, 10 to 19c; mutton, per carcass,
6 to 7c, small, 8 to 10c; ducks, per
lb., 10c.

National Live Stock Convention

National Live Stock Convention

The call for the tenth annual convention of the American National
Live Stock Association, to be held at
Denver, Colo, on Jan, 22nd and 23rd,
has been issued. Among the important topics to be discussed are those
of railroad service and meat inspec

Be sure and read the list of piano bargains which is given on the out-side back page of this issue.

THE FARMING

Caring for an Orchard

I have a one and a quarter acre orchard, trees are down four years,

vation. Please advise.—"Ignoraums," Mabou, N.S.
Autovered by H. L. Hutt, Prof. of Horticulture, Omario Agricultural College, Guelph.

It is not advisable, except in very rate cases, to seed down an orchard in the spring and leave it uncultivated for the season. The best method for treating cittler a young or an old orchard is to give thorough cultivation from early spring until about midsummer. It may then be seeded down with red clover, Incerne, hairy vetch, rye, rape, or some other crop which will act as a cover crop to protect the roots during the winter and add rethirty to the soil when it is turned under in the spring. Either red clover or hairy vetch we find give excellent results for this purpose.

Mares in Foal

with other mares that are with foal. Last spring I lost two colts that came before their time. I had a mare

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foal in the same stable a few days before.—W. G. W. I. No. Damaged fodder should not

15 January, 1907

1. No. Damaged fodder should not be fed to mares in foal. 2. Some mares are easily excited by unusual smells or sights and sounds, especially during pregnancy, and it is commonly remarked that mares in neighboring stalls will foal within a very short time of one another, so that it is probable the parturition of one may probable the parturition of one may influence the other. In some cases, therefore, it would be well to remove the foaling mare to a box stall or part of the stable remote from the other mares in foal.

32. Lice on Cattle

Lice on Cattle
Will you please tell me what to do
for lice on cattle at this time of year?
I am told that it is dangerous to rub
any oil well into the skin now, as it
is liable to cause serious chill. What
can be done, as the lice cause the
cattle to become poor? Is there any
dry powder I can use on the cattle?
—Subscriber, Que
—Treating lice with powders dusted
in the skin is not as thorough asliquid treatment, but will certainly
keep down the number of parasites.

liquid treatment, but will certainly keep down the number of parasites so that there is not so much harm done by them. Powdered pyrethrum is the best for this purpose, but its effectiveness depends largely upon its being fresh and not adulterated. The Persian insect powder is said to owe its power to this drug. It may be dusted along the back and allowed to work down among the hairs. Repeat as often as merces are soften.

REC-ABOUT RURAL LAW

In this column will be answered for any In this column will be answered for any paid-up subscriber, free of charge, questions of law. Make your questions brief and to the point. This column is in charge of a competent lawyer, who will, from time to time, publish herein notes on current legal matters of interest to larmers. Address your communications to "Legal Column," The Farming World, Teronto.

A Lawful Line Fence

(1) Of what should a lawful line fence be made, and how high should it be? What is the legal course to make your neighbor build his portion

(2) It stock and fowl trespass on your property, what steps should be taken to have the trespassing stopped? —L. J. T. (Fallowhield). (1) Section 345, Sub-section 3, of (1) Section 345, Sub-s cities, towns and villages for regulat-ing the height, extent and descrip-tion of lawful division fences. It also provides that until such By-laws are made, "The Line Fence Act" shall continue applicable to the municipalcontinue applicable to the humicipality. You should, therefore, see the clerk of the municipality in which the lands in question are situate and ascertain what By-laws (if any) have you the information you seek. If no By-laws have been passed governing such matters you should then proceed by calling in the fence-viewers, as provided in The Line Fences Act, Revised Statutes of Ontario, 1897, Chapter 284. This Act does not say what the height of the fence shall be nor of what it shall be constructed. but provides that "in making the "award the fence-viewers shall regard

"the locality, the pecuniary circum"stances of the persons between
"whom they arbitrate and generally
"the suitableness of the fence ordered
"to the wants of each party."
(2) Section 2 of Chapter 272 of the
Revised Statutes of Ontario, 1807, "An
Act respecting Pounds," provides that
the owner or occupant of any hand
shall be responsible for any damage
caused by any animal under als
charge and keeping as though such
animal were his own property and the
owner of any animal not permitted animal were his own property and the owner of any animal not permitted to run at large by the by-laws of the municipality shall be liable for any damage done by such animal, although the fence enclosing the premises was not of the height required by such by-laws.

Section 3 of the same Act provides that "if not previously replexied the pound keeper shall impound any horse, bull, ox, ow, sheep, goat, pig, or other cattle geese or other poultry, distrained for unlawfully running at large or for trespassing and doing damage, delivered to him for that purpose by any person resident within his division who has distrained the same, or if the owner of geese or other poultry refuses or neglects to prevent the same from trespassing on his neighbor's premises after a notice in writing has been served upon him of their trespass, then the owner. Provision, however, is made in the Consolidated Municipal Act that this council of every township, city and yillage may pass by-laws providing for pounds and for restraining and regulating the running at large or trespassing of any animals and for providing for impounding them and for appraising the damages to be paid by the owners of animals impounded for trespassing contrary to the laws of Ontario or of the municipality, and it may be that the council of the municipality in which you restite have passed by-laws in respect of the above which vary or after the sections we have quoted from the "Act respecting Pounds," which Act provides that its provisions shall be in force in every township, city, town and incorporated eillage in Ontario until varied or other provisions are not provided to the provisions are force in the provision of the authority of the story of the story of the provision of the authority of the story of the provision of the authority of the story of the provision of the authority of the story of the provision of the authority of the provision laws have been passed they will govern the procedure you should adopt. If none have been passed then the provisions of the "Act respecting Pounds" will govern.

Rights of Mill Owners

Rights of mill Owners

Some further information in reference to the question appearing in the issue of this paper on the 13th day of November last, as to the rights of certain mill owners, has been sent us, and the name of the town and lake appear in the answer hereto.—

S. A. W. (Nova Scotia).

S. A. W. (Nova Scotia). In 1890 a statute was passed by the Governor, Council and Assembly of the Province of Nova Scotia entitude "An Act to provide for supplying the town of Varmonth with water," and chaptered 139. This statute provides that "for the purpose aforesail the water, and the provided of the purpose aforesail the "and empowered to enter upon any "and empowered to enter upon any "lands surrounding or in the vicinity." "lands surrounding or in the vicinity

of the lake known as Lake George in the township of Yarmouth, and

any provision for compensating any persons for any damage they may persons for any damage they may suffer by reason only of the water being taken from the lake and used for the purpose of supplying the town as aforesaid.

Value of Breeding Crates

Value of Breeding Crates

A breeding crate can often be used to advantage where once sows are young and he is using a mature sire. If young sows are kept for breeding purposes it is very good judgment to use a mature sire. In constructing a crate so arrange it that the sides can be set in or out to fit the sow, and the shelves that support the boar so arranged that they can be set up or down. In using the crate the sows of some control of the sow, and the shelves that support the boar so arranged that they can be set up or down. In using the crate the sows easily handled or trouble will be easily handled or trouble will be experienced. In fact, a sow that is not gentle is not fit for a mother.

you, free, a copy of our illustrated telegraph book. Address B, WALKER SOMERS, Principal

DOMINION SCHOOL OF TELEGRAPHY AND RAILROADING

TORONTO, - ONTARIO



Assurance Co. Northern of London, England. Canadian Branch. 88 Notre Dame St. West.

Income and Funds, 1905

Inspector, Agent. ROBT, W. TYRE, Manager for Canada,





cture the location of your Rupture, answer testions, and mail this to DR. W. S. RIC CHURCH ST., BLOCK 313, TORONTO, Or

In the Poultry Yard

Treatment of the Breeding-pen

Treatment of the Breeding-pen By this time most people have mated up the breeding pens for the coming season. Those who have not should do so at once, as it takes some time for the birds to settle down. Not more than eight heiss should be allowed each cock, and if the weather comes by refored. Keep the breeders as time and undisturbed as possible, and, above all, when once the pen is mated up, do not interfere with it in any way by removing birds or introducing others. The following is a good diet, but it should not be adhered to too rigidly, as a change is always a good thing, and some times a micessity. It fall all give expand parts of barley med, bean med, and moddlings. Mix well, and let the towls partake of it in a warm state. At \$2.0 seater about four handfulls of wheat in the bitter (taking by granted that this is provided), and look in every now and then to see that the birds are working for it. Three times a week some kind of the birds are working for it. Three times a week some kind of the birds is even. Between 200 mid bould be given. Between 200 mid bould be given. Between 200 mid behould be given. Between 200 mid the birds are working and should be given. Between 200 mid behould be given. Between 200 mid behould be given. Between 200 mid b Three times a week some kind of cooked meat-bulleck's lights from the butcher is the cleapest form—should be given. Between 1.00 and 2.00 the birds may have their last meal, of grain; wheat and oats are certainly the best, but maize should be strictly avoided, no matter how cold the weather. Barley and buck-wheat are good changes, and the former is warming. Unless the fowled and says are good changes, and the former is warming. Unless the fowled and says are good changes, and the former is warming. Unless the fowled and says the former is warming. Unless the fowled in the former is warming. Unless the fowled conditional of the former is warming. Unless the fowled in the former is warming. Unless the fowled in the former is warming, the former is warming, but the former is warming to the former is warming to the former in the soft food. It is, by the way, a very good thing to said a little sait to the latter. If so the former is warming we freatment is adhered to, strong, we freatment is adhered to, strong we freatment is adhered to, strong we freatment is adhered to, strong we freatment is adhered to, and the section of the section of

38 Males for Breeding

Males for Breeding
To the past season's harten of cockereis the breeder now turns for birds
from which to breed and to sell as
breeders, for next season, and this
is a matter of importance. Whether
for your own yards or for sale as
breeders, pick out the largest, best
devaloped birds, those having bright
more successive and watters, clear eye,
creet more successive and general,
whose plumage and general,
effects for conform most closely to the
effects are conform most closely to the

whose plumage and general characteristics conform most clotter territories conform most clotter to the requirements of the breed. When about to purchase a male to head a dock, it is best to secure, if possible, a funchiered bird, that is a descendant from a strain bred for generations with some specific object in xira. Each instance, one person will breed for each rootsteller an analysis of the straight of the

Placing the Incubator

drawer temperature near the wall is not what it should be. If possible, the machine should stand on a bench. but what fley have been injured in some way during their enforced idleness. It may be only a slight crack here or there, but it makes all the difference to the result of the hatch. Thousands and thousands of eggs are spoil by over cooling.—Will Hooley, in Southport Visitor.

Green Food for Poultry

The farm breeder should lay in an abundant supply of fodder for his poultry just as he does for his horses, eattle and swine. Instead of hay and grain, however, garden refuse, such as small and imperfect cabbage heads. potatoes and turnips, make excellent changes in the ordinary feed for the

All these things should be carefully stored, so that when the snow or cold rains fall, the hens may have something green to keep their appetites in condition. A change of diet every couple of days is advocated ers. Cook the green food one day, and feed it raw the next time, and so

Hens Going Light

When a hen is noticed to be becom-When a hen is noticed to be becoming pale about the face and shrunken about the comb, she should be handled at once to see if there is corresponding wasting away, for this generally denotes tubercular disease of the liver, a complaint that must not only inevitably prove fatal, but is also highly contagious, so that, although valuable specimens have been patch-ed up, it is far better to destroy them

BUFF ORPINGTONS—8 breeding pens this season, headed by imported and prize stock, Rggs \$4.09, \$2.00 and \$3.00 per setting. Incu-bator eggs \$5.00 per 100. Write at once for free catalogue describing them. J. W. CLARK, Pres. Orpington Club, Importer and Breeder, Cainsville, Ontany 100.

MAMMOTH Bronze Turkeys for sale. Some extra fine young Toms weigh from 22 to 25 lbs., at \$5 each. Also a fine lot of Barred Rocks at \$1 each. CHAS (60! LD, Woodgreen, Out.

FOR SALE—Some extra well bred Barred Rocks. Prices right, Write A. S. WERDEN, Aneedia Farm, Bethel, Out.

SHOEMAKER'S POULTR

of chickendon. You need it. Price only theta C.C.SHOENAKER, Box 1017 FREEPORT, 11A.





disease, though there would be cough to indicate complaint of the lungs. Ordinary cases of birds going light after a hard season of laying may be cured with cod-liver oil.—



Bell's Bronze Turkeys

Have won more first prizes at the Provincial Winter Pair, Guelph, the past six years than all other exhibitors combined, and every one of these winners, with one component, and every one of these states, and exception, was bred in his yards.

A few exhibition yearlings and two-year-old hens for sale, as well as some choice young stock.

W. J. BELL, Angus, Ont.



It costs only Sc. a year per fowl to give each hen the required amount every week.

When eggs are selling for 50c. a dozen, this 8c, a year is paying a big profit. 5
At dealers everywhere, 25c, and 50c, a bottle,

NATIONAL DRUG & CHEMICAL CO., LIMITED, MONTREAL.

K.

PURE-BRED STOCK

NOTES AND NEWS FROM THE BREEDERS

These columns are set apart exclusively for the use of breeders of pure-bred stock and poultry. Any information as to importations made, the sale and purchase of stock and the condition of herds and flocks that is not in the nature of an advertisement will be welcomed. Contains to firsts an incess that is not in the hazire of an apperturement with the weekings. Our desire is to make this the medium for conveying information as to the transfer of pure-bred animals and the condition of live stock throughout the country. The co-operation of all breeders is carnestly solicited in making this department as useful and as interesting as possible. The Editor reserves the right to eliminate any matter that he may consider better suited to our advertising columns.

Farming World Man on the Wing

Mr. S. J. Prouse, of Ingersoll, Ont., has on hand at the present time about 20 head of imported Clydesdale fillies to leading horses in Scotland. They are all of them well bred, many being sired by such horses as Sir Hugo, Baron Robgill and others of equal fame as getters and producers.

Messrs, J. W. Innes and Mr. Scha-fer, of the firm of Innes, Schafer & McLary, of Ingersoll, Ont, leave on the S.S. Salaica for Scotland, where they intend to purchase a consign-ment of stallions and fillies. It is their intention to offer the entire lot at public auction at their own stable at a date to be announced later.

Mr. Jno. Brydon. Miserton, Ont., reports the sale of a number of young bulls bred in his herd of imported cows from his grandly-bred bull, Statyton Victor. Among them are a fine eleven months roan bull call, Sittyton Pride, to F. Martindale & Son, of Galedonia, Ont. W. R. Elliott & Son, of Galedonia, Ont. W. W. Son, of Galedonia, Ont. W. Son, of Galedonia, Ont. W. Son, of Galedonia, Ont. W. W. Son, o Mr. Jno. Brydon, Milverton, Ont., imp, also a daughter of Paragon. Messrs. P. Crear & Son, of Moles-worth, Ont., were the purchasers of an extra choice, thick and sappy youngster in Springhill Victor, an eight months son of Sittyton Victor and Loretta Girl imp, who was in turn sired by Sturdy Frince, a good breeding son of Prince of Archers Sunbeam very similarly to Frince Vanders.

As announced elsewhere, Mr. J. M. Gardhouse offers at auction sale at the Eagle Hotel, Weston, Ont., on Feb. 7th, 1907, ten imported and Canadian-bred Shire and Clydesdale fillies, thirty-five head of imported and Canadian-bred Shorthorn cattle and 13 thirty-five head of imported and Catiadian-bred Shorthorn cattle and 12
head of choice Leicester ewes and
ewe lambs. This is an aggregation
of goods of a choice kind, as Mr.
Gardhouse has ever held a reputation
as a winner in the leading showrings
of Canada and that in the hottest of
company. A Shire stallion which he
sold to the Lord Aberdene estate at
Vernon, B.C., has been commented
on as the best of his kind which has
yet crossed the Rockies. The bull
Chief Ruler, from which the young
stock are bred, was selected by W.
C. Edwards & Co. of Rockland, Ont.,
last spring to assist in that great herd
of Shorthorns. The present bull.
Addlethan Royal, was one of the
plums at Mr. W. D. Platt's sale.
The cows in this herd represent succe
shoice blood as the Missies, Orange
Blossoms, Nonparells, Village GB.
Miss Ramsdene, Urys and other popular strains. Mr. Gardhouse has for
many years been most favorably many years been most favorably

known to stockmen throughout the continent, and should meet with the enthusiastic support of all stockmen in

Gossip

The annual meeting of the Canadian Ayrshire Breeders' Association will be held in the Monument National Building, 200 St. Lawrence Boulevard, Montreal, on February 14, at 10 am. The directors will meet at the Queen's Hoel on Pebruary 14, at 10 am. The meeting of the Canadian Canadi attend this meeting.

The Hon John Dryden and Prof.
G. E. Day are announced to give addresses on the "Bacon Hog" at the
annual meeting of the American
Breeders' Association, to be held at
Columbus, Ohio, January 15-15, 1907.
Evidently the swine breeders of the
United States are not hopelessly weddad to the high Eff hope. ded to the thick, fat hog.

Mr. J. M. Gardhouse, Weston, Ont., writes that he will sell a valuable consignment of breeding stock at Weston on February 7th. The imported mares in foal are worth looking after. Included in the lot is Black Jewel, now four years old, in foal to Nateby King, the first three-year-old at Toronto last fall. This mare won first and last tall. This mare won first and Shire horse championship at the To-ronto spring show of 1906. The two-year stallion colts are above the aver-age and one of them won first at Toronto Industrial, 1906.

The imported Princess Royal bull The imported Princess Royal buil I consider one of the very best show bulls in Canada to-day, if fitted. Nonpareil Eclipse is another bull whose sire sold for large money, and he is the right sort. The females, of which several are imported or bred





W. F. YOUNG, P.D.F., 71 Monmouth Street, Springfield, Mass. 5 Canadian Agents: LYMAN SONS & Co., Montreal.

Ontario Veterinary College, Ltd. Prof. A. Smith, F.R.C.V.S., Principal,
Temperance St., Toronto. Ont.

Glenhodson Yorkshires

Sows bred or ready to breed. Young pigs from three to six months old. Pairs not akin. Satisfaction guaranteed.

GLENHODSON COMPANY, Myrtle Station, Ont Long-distance phone at farm. LORNE FOSTER MCR

Oak Lodge Yorkshires

A large herd of choice Pigs of all ages on hand, quality guaranteed. No other herd has such a record in the show ring, covering several years. Oak Lodge type of hogs are profitable breeders and ideal bacon hogs. Correspondence solicited.

J. E. BRETHOUR, BURFORD, ONT.



Carnefac

is just what THOSE STEERS require; they are a little off and need a QUICK TONIC.

Try Carnefac for that Thin Horse.

Results SURE and OUICK.

from imported stock, are a kind which will be profitable and have a lot of good calves by their sides, sired by the imported Marr-bred bull. Chief the ir Ruler.

In Leicesters there are some foundation stock, as they are of the best strains obtainable, and have produced several of our prize winners of recent years. The ewes are safe in lamb to last Toronto first prize

A deputation from the new Ontario Horse Breeders' Association, consisting of Wm. Smith, President, and Messrs. J M. Gardhouse, John Bright, Geo. Pepper, and John Boag, waited upon the Minister of Agriculture last week and asked for the usual grant of \$2,000 in aid of the horse breeding industry of the province. The Hon. Mr. Monteith promised that the usual grant would be placed in the estimates.

Mr. H. Smith, Exeter, Ont., writes:
The young bulls I am advertising in this issue of THE FARMING WORD, are a choice lot of strong, growthy, sappy fellows of good quality. Among them is Vain Duke, first prize bull call last fall at Lendon, defeating a Toronto first prize winner. As he is a son of Gold Drop and his dam Vain Maid is a famous breeder, four or five of her calves being first prize winners at London shows, he should breed on. Another good one is Suniners by (imp.) Rosy Morning =50081 = (a Duthie bred bull that has done excellent service in our herdy, and from the same dam as Messrs, Watts' excellent herd bull. Springhurst "Lord Buckingham" was pieked out as a very promising call by Mr.



Dalgetty's Clydesdales

I have at the present time to offer a few splendid individuals that combine weight, size, conformation, quality and style with soundness and unexcelled breeding. My prices are right for the goods, and terms reasonable. Come and see my latest importations at their stables, London, Ont.

JAS. DALGETTY, Fraser Hotel, LONDON, ONT.



Clydesdales and Cheval Normans

New importations, all ages, some ton weights.

The Best of Quality and at Low Prices.

Must sell. Write for breeding and prices. Must sell. Write for breeding A few French Canadians.

ROBERT NESS & SON. Long Distance 'phone. "WOODSIDE," HOWICK, QUEBEC

Clydesdales Hackneys



I have just landed a splendid shipment of Clydesdale Stallions and Fillies, and several very fine, flashy and good going Hackney Stallions. The Clydesdales include horses sired by

Baron's Pride, Hiawatha and Marcellus and other noted sires. Parties desiring something choice can find it at right prices at my barns at Millbrook, Ont., or at Regina, N.W.T.

T. H. HASSARD, V.S., Proprietor. MILLBROOK, ONT. J. C. FYFE, V.S., Manager, REGINA, N.W.T.



IMPORTANT AUCTION SALE

Clyde and Shire Horses, Scotch Shorthorns and Leicester Sheep

the property of J. M. GARDHOUSE, Weston, Ont. ---AT---

EAGLE HOTEL STABLES, WESTON

Thursday, February 7, 1907, at 1 P.M. Sharp

10 Imported and Canadian-bred Clydes and Shires, most of which are mares in foal to first-class

35 Imported and Canadian-bred Scotch Shorthorns, the produce of the best blood obtainable, representing such families as Nonpareils, Missies, Orange Blossoms, Miss Ramsdens, Village Girls, Urys and other popular families, including Imported Ardlethen Royal, a Princess Royal bull, and

12 Leicester ewes of choice breeding, one pair of which are imported, in lamb to a 1st prize Toronto winner; also a few ewe lambs.

For further particulars, see Catalogues, which will be sent on application

CAPT. T. E. ROBSON J. K. McEWEN Auctioneers. H. RUSSELL

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st

Duthie, the famous Scottish breeder, during a pleasant visit here last sum-mer. He is out of an excellent old cow that was the dam of the highest

cow that was the dam of the highest priced female (making 880) in the last sale of F. W. Harding, the well known Wisconsan breeder. A white one of excellent quality, thick and low, is "Startight," by Messrs. Watts' great bull Springhurst and out of imported Besse Wenlock, by Villager. Our oldest heifers by Gold Drop Our oldest heifers by Gold Drop

Our oldest heifers by Gold Drop are just now dropping calves, and they promise to be equally as successful as dairy cows as they have been in the showring—regular double-deckers. Imported Kosy Morning, sire of much of our young stock, will I expect, be equally as successful in siring dairy qualities, his dam being the heaviest milker in Mr. Duthie's herd."

Robt. Shaw, Brantford, Ont.,

writes:—
My stock of Galloways are now settled in their winter quarters, after a very successful show season. The imported bull Viceroy of Castlemilk a very successful show season. The imported bill Viceroy of Castlemilik.

—194—(7062) is proving himself a very superior sire, and College Chief-tain 1426— is a grand type of a Galloway. His is by Cedne 4th of Tarbreoch —1303—(6466), gr. sire Campfollower (3642), dam College Bessen (3642),

I have a few young bulls and heifers to spare at reasonable prices."

Mr. Brodie's Filly Sale

Mr. Brodie's Filly Sale

The sale of imported Clydesdale fillies, held by Mr. Geo. Brodie, of Bethesda, Ont, at his farm on Tuesday, Jan. 8th, was an event at which the purchasers got a little the best held of the process of the pr

CAIRNBROGIE

The home of **The Matchless MacQueen**, and more of America's Champions than all others combined. Breeders of CLYDESDALES and HACKNEYS.

GRAHAM BROS. - Claremont, Ont.

P.O. and Sta., C.P.R. 25 Miles East of Toronto. LONG DISTANCE TELEPHONE.



DUNROBIN STOCK FARM

Clydesdales Shorthorns Yorkshires

Won more than any other individual breeder in the breeding classes of Clydesdales at recent National Exhibition. Young stock and imported fillies at reasonable prices. Shorthorn bulls and Yorkshire swine.

D. GUNN & SON, Beaverton, Ont.



SMITH & RICHARDSON

HIGH CLASS CLYDESDALE HORSES

We have just landed a choice and carefully selected lot of grand, big horses, of the splendid quality which Scotland's best blood alone can impart. Come and see them at their stables at

COLUMBUS, ONTARIO

Oshawa Station, G.T.R.

Myrtle Station C.P.R.



W.C. KIDD, LISTOWEL, ONT.

Importer of Clydesdales, Shires, Percherons, Belgians, Hackneys, Standard-breds and Thoroughbreds

of highest possible quality and richest breeding. Have sold as many tailions the last year as any man in the business, with complete tailions have been also been as a superior of the sold of the sol

LISTOWEL P.O. AND STATION



Graham & Renfrew's

CLYDESDALES and HACKNEYS

Our Clydes now on hand are all prizewinners, the breeding is gilt-edged. Our Hackneys, both stallions and mares, are an exceedingly high-class lot. We also have a few high-steppers and carriage horses. Yonge Street cars pass the door every hour. Thone North 4483.

Graham & Renfrew, Bedford Park, Ont.



JOHN BOAG & SON Importers and Breeders of High-class Clydesdales

We have to offer about a dozen head of fine imwe have no other about a queen nead of nie im-ported Chydesdale stallions and fillies. They are the right kind, combining size and draftiness with desir-able style and quality. They are carefully selected personally, and are from leading sires in Scotland and with good breeding on dams' side. Write and tell us what you want.

RAVENSHOE P.O. Brown Hill Sta., Midland Div., G. T. R.

Advertise in The Farming World

\$260; Signorina, J. McFarlane, Clare-mont, \$225; Crocus, R. M. Holtby, \$225; Maggis Munn, C. Coursey, \$235; S223; Maggis Munn, C. Coursey, \$235; Lady Montague, Graham Bross, \$232; Maid of the Mil, D. Gunn & Son, Beaverton, \$210; Lady Renshaw, S. Armstrong, Stouffeille, \$235; Mclisa, A. M. Baker, Stouffeille, \$235; Miss, Arkley, H. D. Cameron, Arthur, \$205; Lady Orde, D. Gunn & Son, \$200, 20 fillies brought \$11,890, average \$300 487.

Pine Grove Shorhorn Sale

The third annual sale of Shorthorias from the Pine Grove herd, the property of W. C. Edwards & Co., was held at Rockland, Ont., on January 9th last. There was a fair attendance. The offering was a very good one, especially the helfers, which were brought out in good fit. Several of them were of showyard character and were bargains for the huyers. Conthe fine condition they were brought out in, every heifer sold for less than her real value, though many might consider the prices realized fair, under Why the farmers of the district did not take advantage of this golden op-portunity to secure gilt-edged stuff at practically their own prices is hard to say. With one or two exceptions all the heifers sold to buyers from all the heifers sold to buyers from Western Ontario, one going to Ohio. The top price of the sale was \$310, paid by McDonald Bros. Woodstock, Ont., for Pine Grove Secret 4th, a Village Champion heifer of the Secret family. Col. Bellows, of Maryville, Mo., and Captain Robson, Ilderton, Ont. were the auctioneers. The following is a list of the heifers sold.

Ont, were the auctioneers. The following is a list of the heifers sold:
Pine Grove Mildred 11th, Robt.
Miller, Stonfielle, \$135; Lily of Pine
Grove 3rd, R. Miller, \$180; Pine Grove
Clipper 10th, Thos. Johnston, Columbus, Ohio, \$240; Missie of Pine Grove
Th, R. Miller, \$360; Pine Grove
Th, R. Miller, \$360; Pine Grove
Th, R. Miller, \$360; Pine Grove
The Grove 5th, McDonald Bros. \$125;
Jealous Girl, H. Cargill & Son, Cargill, \$140; Zoe of Pine Grove 4th, R.
Miller, \$250; Pine Grove Ouchess of
Gloster 2nd, A. Summers, Aldershot,
\$175; Ruby of Pine Grove Mildred
Jath, T. E. Robson, Ilderton, \$100;
Lady Lancaster 11th, Peter White,
Pembroke, \$300; Pine Grove Clipper
11th, Peter White, \$210; Ruby of Pine
Grove 5th, H. Cargill & Son, \$270;
Pine Grove Clipper
11th, Peter White, \$210; Ruby of Pine
Grove 5th, H. Cargill & Son, \$170;
Pine Grove Duchess of Gloster 3rd, A.
Summers, \$150; Pines Grove Clipper
11th, Peter White, \$210; Ruby of Pine
Grove 5th, H. Cargill & Son, \$170;
Pine Grove 5th, Pines of Pine Grove
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Pines of Pines Grove Of Pine Grove
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Pines of Pines Grove Of Pines Grove
Pines of Pi Summers, \$170: Princess of Pine Grove 2nd. Wm. McGarry, \$90; Zoe of Pine Grove 7th, McDonald Bros., \$100; Ruby of Pine Grove 10th, Arthur Johnston, Greenwood, \$150: Saucy Girl, F. R. Shore, White Oak, \$75.

20 head sold at \$3,530, average \$176.50; average at last year's sale, \$248.00

NITHSIDE FARM HERD

LARGE ENGLISH BERKSHIRES

Twelve YOUNG SOWS from five to eight months old, also Young Boars fit for service. A choice lot of Silver Grey Dorking Cockerels to

satisfaction guaranteed.

E. E. MARTIN, EST.

CANNING P.O., . Oxford County. Paris Station G.T.R.

Big Holstein-Friesian Sale

Big Holstein-Friesian Saile
The sale of pure-bred HolsteinFriesian cattle held at Riverside Stock
Farm on Dec. 27, was the most extensive by far, and the most successful, of any sale of this breed heretofore attempted in Canada. Messrs.
M. Richardson & Son's herd has been
the finest strains of some of the bestknown families of the splendid black and fanciers who were present at the sale, coming from as far east as Prince Edward Island, and as far

west as Manitoba.

Mr. Matt Richardson, the senior partner, is retiring from active business, and Mr. J. W. Richardson will now carry it on with a lighter stock, attention may be

Proceedings were opened by Prof. Day, of the Ontario Agricultural Col-



MR. MATT. RICHARDSON. Who is retiring from active busi-

lege, Guelph, with an address upon wielded the hammer, assisted by Auctioneers Merrall and Wigg, of Caledonia and Cayuga. In a little over their hands, realizing the sum of \$9,105. The bidding was brisk and good-natured, and never slacked for a moment, those animals having the strongest official backing having a

Average price for 29 cows, 2 years \$192 \$90

Average for 16 bulls, 5 under 3 \$97 months. \$97 Some of the chief buyers were: Prof. G. E. Day, Ontario Agricultural College, who purchased three at from Similar Streeth Botton, one, the Control Streeth Streeth Streeth Botton, one, the Control Streeth Stre

Mrs. Chugwater-"Josiah, I want to do something to encourage the hens to lay. Oughtn't we take a poultry journal of some kind?"

Mr. Chugwater—O, yes; subscribe for one if you want to. But I can tell you right now the hens will never look at it?"







3 Choice Hackney Stallions for Sale A number of Imp. and homebred mares for sale. We are booking orders



mares for sale. We are booking orders for March and April pigs from our Eng-lish (Imp.) Berkshire boar, Danesfield Donovan. A few Shropshire ewes for sale. We are booking orders for pups from our Scotch Collies, sire Craigmore Conqueror; dams Holyrood Rose and Rayenswood Bonnie Bell, bred by Galt & Tait, Scotland



Langton Stock Farm Co., Limited, Brantford, Ont. T. A. Cox, Mgr.

The Greeks had their Oracles, the Romans their Augurs, we all have our Omens—and the small attendance at the opening of the meeting certainly looker rather inauspicious. However, oracles, augurs and omens cannot always be relied on, as in a very short time members from far and near began to arrive rapidly. There was

soon a good attendance, and a most interesting and instructive meeting was the result, of which the following is a very condensed report:

The annual meeting of this association was held in the Ontario Veterinary College, Toronto, on Friday, Dec. 31st, 1906. Members were present from all parts of the province and some from the United States, and Authority of Authority of Authority of Authority of Authority with a short address that was received with applause.

The secretary's, treasurer's, registrations and interesting the secretary's and interesting the secretary secretary is a secretary and interesting the secretary secretary is a secretary and interesting the secretary secretary is a secretary secretary and interesting the secretary se

with a short address that was received with appliause.

The secretary's, treasurer's, registrar's and auditors' reports were received and adopted, showing that there was now in the treasurer's the secretary of the secretary of the result of the secretary of the following such a comparison of the secretary of th

At the close of the mominations, an animated discussion ensued as to who were not eligible for membership of this association, and it was ultimately resolved that a committee composed of the president, vice-president and Dr. J. D. O'Neil be appointed to investigate and report.

Dr. Rutherford, Veterinary Director-General for the Dominion, reported that he has now in his hands as the constitution committee the sum of gantage of the proceedings of the Veterinary Organization Committee the sum of gantage of the proceedings of the Veterinary Organization Committee; also Drs. Rutherford and Wm. Andrew Smith spoke relating to the action of the committee and its results, and a motion was subsequently brought forward by Dr. C. Elliott, seconded by Dr. J. D. O'Neil, and passed, "That the committee and its results, and a motion was subsequently brought forward by Dr. C. Elliott, seconded by Dr. J. D. O'Neil, and passed, "That the thoo br. Rutherford for the senior to br. Rutherford for the stand to be a standard to be developed to be developed

Veterinary College, assisted by Mr. C. G. Saunders, veterinary student, who administered chloroform, and

The Annual Meeting of the Ontario Veterinary Association MAPLE CLIFF DAIRY AND STOCK FARM Breeders of CLYDESDALE HORSES.

BERKSHIRE AND TAMWORTH PIGS. FOR SALE, TEN TAMWORTH SOWS-Bred to farrow in May.

R. REID & CO., Hintonburg, Ont.

MAPLE LODGE STOCK FARM

Scotch Shorthorns, Choice Milking Strains. Prize-winning Leicesters. Young Stock for sale. — imported and home bred.

A. W. SMITH Maple Lodge P.O., Ont.

Maitland Bank STOCK FARM

Choicely bred Shorthorns. A fine crop of young stock bred on choicest lines to choose from. Can supply a number of fine young bulls D. MILNE & SON, Ethel P.O. and Sta. G.T.R.

Allindale Stock Farm

Scotch Shorthorns, (Imp.) Glosters, Love-lace and Lavender families—Leicester Sheep-4 young bulls. Young cows and heifers for sale. SAMUEL ALLIN, - - Bowmanville, Ont.



HOLLYMOUNT STOCK FARM MITCHELL, ONT.

A choice lot of Young Buli-for sale — promising herds headers, of the most desir-able breeding. W. J. THOMPSON, Mitchell, Ont

Pine Grove Stock Farm

Breeders of High Class Scotch Shorthorns, Choice Shropshire Sheep, Clydesdale and Hackney Horses.

C. W. WILSON, W. C. EDWARDS & CO., Limited Superintendent, Proprietors, Rockland, Ont., Canada

No More Blind Horses For specific ophthalmia, Moon-Blindness and other Sore Eyes, Barry Co., Iowa City, Ia., have a sure cure.

DAVID McCRAE, Janefield, Gueiph, Canada Importer and Breeder of Galloway cattle Clydesdale horses and Cotswold sheep. Choice animals for sale.

W. G. PETTIT & SONS FREEMAN, ONT.

Scotch Shorthorns

CHAS. RANKIN, wyebridge, Ont., importe Cattle and Oxford Down Sheep. Here headed by Pride of Scotland timp. For Sale —Females and bulls of all ages, from note Scotch families.

JOHN GARDHOUSE & SONS, Highfield, Ont. Breeders of Scotch and Scotch topped Shorthorns Shire Horses, Lincoln and Leicester Sheep. A good selection of young stock of both sexes for safe Farm 3% miles from Weston station, G.T.R.



SHORTHORN BULLS

That are right, bred right, priced right. Customers treated right.

Also choice Scotch-bred cows and heifers for sale.

Write for catalogue and come and see the herd. We can please you. Farm adjoins Exeter on the G.T.R. 30 miles north of London.

H. SMITH, Exeter, Ont.

FARNHAM FARM OXFORDS

lambs.

At Canadian National Exhibition, London, Ottawa, and New York State Fair, we won this year practically everything, both with our imported and home-bred stock. Guelph, G.T.R HENRY ARKELL & SON.

Arkell, C.P.R. Telegraph, Guelph.

ARKELL Out.



THE YOUNG BULLS FOR SALE AT

JOHN DRYDEN & SONS, Brooklin, Ont.

Salem Herd of Shorthorns

Champions of 1905

Owned by R. A. and J. A. WATT, Salem, Ont. Elora Sta., 15 miles north of Guelph. G.T.R. and C.P.R.

Like produces like. Buy from the herd that produces the CHAMPIONS. High-class young bulls, the kind that suit all buyers, at attractive prices. Sired by the International winner, Mildred's Royal, and the Duthie-bred Scottish Beau.

Trains met by appointment. Telephone at residence.

BREEDERS' DIRECTORY

Cards under this head inserted at the rate of \$2.00 per line, per year. No card accepted under two lines, nor for less than six months,

HORSES

SMITH & RICHARDSON, Columbus, Ont.

M. GARDHOUSE, Weston, Ont.

THOS. MERCER, Markdale, Ont.

R. NESS, Howick, Que.

GRAHAM BROS., Claremont, Ont.

HODGKINSON & TISDALE, Beaverton, Ont.

Clydesdales Stallions and fillies for sale.

JOS. EADY, Vars P.O. and Station, G.T.R.— Clydesdale stallions and fillies, imported and Canadian bred. Right prices for the goods.

SHEEP

J. LLOYD JONES, Burford, Ont. A fine selection of choice home-bred and imported Shropshire Sheep.

J. A. JULI, Burford, Ont, Oxford Downs, About 25 head of choice young Lambs, Also a few breeding Ewes. All by Imported Rams,

J. C. ROSS, Jarvis, Ont. Cotswold Sheep. Prize-winners at America's leading shows. Imported and home bred. Also some good Clydesdale Horses.

TELFER BROS., Paris, Ont. Hampshire and Southdown sheep,

JOHN GARDHOUSE & SONS, Highfield, Ont.

J. M. GARDHOUSE, Weston, Ont.

JOHN DRYDEN & SON, Brooklin, Ont.

GEO. B. ARMSTRONG. Bowhill Stock Farm Tecswater, Ont.—Leicester breeding ewes

PETER ARKELL & SONS, Teeswater P. O. and sta., C.P.R.; Mildmay, G.T.R. Oxford Down Sheep, showring and breeding stock, imported and home-bred.

HOS. ARKELL, Teeswater, Ont., sta. C.P.R.; Mildmay, G.T.R. Choice breeding stock, Oxford Down Sheep.

GEO. SNELL, Yeoville, Ont. — Shorthorns. Newton Prince and Lady May (imp.). 3 young bulls for sale. All imported stock.

GEO. N. HARRIS, Lynden, Ont. Southdown sheep and Berkshire pigs.

SWINE

B. BRETHOUR, Burford, Ont

JAS. WILSON & SONS, Fergus, Ont., breeders of Yorkshire Swine. Young Boars and Sows of choice breeding for sale.

COWAN, Donegal P.O., Atwood sta., G.T.R. Choice breeding stock in Lelcester Sheep and Berkshire Swine.

CATTLE

ASHLAND STOCK FARM. Pure Scotch-topped shorthorns, Cows herd from imported stock of grand Scotch breeding. Young stock of both sexes for sale, J. MARSHALL, Jackson P.C. Ont. Tara Station, G.T.R.

ROBERT SHAW, Brantford, Ont., breeder of Galloway Cattle. Young stock of both sexes for sale.

J. D. McARTHUR, Paisley, Ont. Some good young Shorthorns.

W. J. THOMPSON, Mitchell, Ont.

SAMUEL ALLIN, Allindale Farm, Bowman-

JOHN DRYDEN & SON, Brooklin, Ont.

HENRY REED, Mimosa, Ont. — Herefords, — Young stock for sale, Write us.

W. G. PETIT & SONS, Freeman, Ont.

JOHN GARDHOUSE & SONS, Highfield, Ont.

H. SMITH, Exeter, Ont.

JOHN BRYDON, Milverton, Ont., G. T. R.— Shorthorn cattle. If young bull calves from well-bred imported dams, and sired by imp. Sittyton Victor — 50033—,

GEO. B. ARMSTRONG, Bowhill Stock Farm, Teeswater, Ont.—Imported and Homebred Shorthorns for sale.

MACDONALD COLLEGE, Ste. Anne de Bellevae, Que.—Ayrshires. The famous Reford owned by Sir William C. Macdonald. Several yearling bulls for sale; also a number of bull calves. Quality and appearance extra good: bred from the best miking strains, noted for robust constitution and large teats. Write for particulars.

AMOS SMITH, Trowbridge P.O., Ont. Shorthorn Cattle-pure Scotch breeding from popular and prize-winning strains.

W. F. STEPHEN—Box 163, Huntington, Que. Springbrook Ayrshires—for sale—some young stock, both sexes.

J. A. GOVENLOCK, Forest, Ont. Herefords, young stock from carefully selected imported and homebred cows, prizewinners at leading shows.

H. K. FAIRBAIRN, Thedford, Ont. Shorthorns, some of the very finest of the breed. For sale, six heifers and two red buil calves.

OGILVIE'S Ayrshires—Lachine, Que.—Calves for sale, both sexes, also a few splendid cows. Robt. Hunter, Manager. Phone M 2228.

R. A. and J. A. WATT, Salem. Ont. Shorthorn cattle, imported and home bred. A few choice herd headers.

D. DeCOURCEY, Bornholm P.O., Mitchell Sta., G. T. R. Improved Ohio Chester White Swine. Shorthorn Cattle. Leicester Sheep.

JOHN WATT & SON, Salem P.O., Ont., Elora Sta., G.T.R. Pure bred Shorthorn Cattle, A few choice females.

W. CLARKSON, Malton P. O. and Sta., G. T. R. Pure bred Scotch Shorthorn Cattle and Lin coin Sheep. Some choice youngstock for sale.

GLEN GOW SCOTCH SHORTHORNS, from such choice strains as imp. Wedding Gift, Young steck sized by Killblean Beauty bull, imp. Ben Lomond and imp. Joy of Morning, Some fine young bulls from six months to nine months of age; also some very fine females. Prices right, Wm. Smith, Columbus, Ont.

W. W. BALLANTYNE, Stratford, Ont. Ayrshires of the best milking strains. Some choice young bulls for sale.

D. SINCLAIR, Keady P.O., Ont. Shorthorns of best beef and milking strains. Young stock from choicest strains. Close to imported stock. Tara station, G.T.R.

MISCELLANEOUS

JAMES DOUGLAS, Caledonia, Ont. Shorthorn Cattle, Leicester Sheep, Stock for sale

J. T. GIBSON, Denfield, Ont., sta. G. T. R. Imported and home-bred Scotch Short-horns. Choice breeding stock in Lincoln Sheep.

PICHARD GIBSON, Delaware, Ont.— Shorthorn cattle and Clyde horses, Yorkshires. We guarantee satisfaction to all mail orders.

** & G. PARKIN, Oxford Centre, Ont.

Berkshire Swine, Barred Rock Poultry.

Prices right. Satisfaction guaranteed.

in producing anæsthesia with chloroform. This operation was viewed with much interest. The animal is

with much interest. The animal is now doing with the control of th

Dr. Rutherford gave an interesting and instructive address, mentioning "Surra" and "Dourine" or mal du coit. The similarity of these diseases in the symptoms in the eastern and western hemispheres, but the marked bacteriological differences that are found in Manitoba and the adjacent provinces from those in tropical climates and in the eastern hemisphere. He also mentioned that Dr. A. E. Watson, of the Lethbridge, Alta, quarantine station, had reported to himself in a letter dated Dec. 3rd, 1906, the finding of trypanosomata in the blood of the cotton tail rabbits of that disrict. This is the first record of the finding of trypanosomata in mammalian blood in Canada.

Dr. Duncombe, V.S., read a good paper on castration. He gave an excellent description of his method of operating in the standing position and advocated the application of carbolic acid or crestine in oils to the scrotum afterwards.

All these papers elicited useful discussions, in which many participated, and the thanks of the members were unanimously voted to all the gentlemen who had added so much to the interest and instruction of the meeting.

The subject of the so-called "Veterinary Correspondence School" was then brought forward, and institutions of that character were very strongly repudiated by many members of the profession.

A motion was passed that the sum of \$23.00 be appropriated for a medal to be presented for competition to the graduating class of the Ontario Veterinary College at the approaching spring examinations.

And a motion was passed that the thanks of the meeting be tendered to Dr. L. A. Willson, VS, the retiring president, for his earnest efforts while in office for the best interests of the association and the profession at large.

It was moved by Dr. Rutherford, seconded by Di. J. D. O'Neil, and carried, that the officers be empowered to hold a meeting of the association during the coming summer. Dr. Rutherford spoke favorably of the meeting being held in the city of Ottawa.

The following gentlemen volunteered to read papers at the next meeting: Dr. Bowlby, V.S., of Tweed, and Dr. Gastin, V.S., of Brantford.

The following are the officers for the ensuing year:

President, J. W. Orr, V.S. Stratford, Ont.; 1st Vice-President, O. H. Duncombe, V.S. Waterford; 2nd Vice-President, F. G. Hutton, V.S. Welland; Secretary-Treasurer and Registrar, C. Heath Sweetapple, V.S., Toronto; Assistant Secretary, R. Barnes, V.S., London,

Directors-Dr. C. Brind, V.S.; C. Elliott, V.S.; T. Babe, V.S.; P. T.

(Continued on page 81.)

Market Review and Forecast

The Trend of Markets-Supply and Demand-The Outlook

Toronto, Jan. 14th. 1907. Business this year has opened up ery well. In wholesale circles orders for spring delivery are better than expected. If further evidence this country is making the splendid showing of the banks in their annual statement would show it. The money market keeps strong and is likely to continue so for some time. Call loans

WHEAT

The new year opened with a de-cidedly bear movement in the specu-lative markets, due to the unloading of western wheats and the larger ar rivals of Argentine wheat. The English market is depressed and at the moment things do not look very faworable for higher prices. The local market is quiet, with quotations on the call board, Toronto, ranging from 68c to 70c at outside points. Goose is quoted at 65c

COARSE GRAINS

The oat market continues firm, quotations being 411/2 to Montreal quotations being 41/2 to 42/2c. Here quotations are 36c for No. 2 white outside and 37/4 to 38c bid, Toronto. The barley market is quiet. Malting barley is quoted at Montreal at 58c to 60c in store. No. 2 is quoted here at 58c, outside points. Peas are quiet here at 78 to 79c outside American yellow is quoted here at 49½ to 50c for car lots on track, To-ronto. Bran is quoted at \$21 Toronto or \$18.50 to \$20 outside.

HAY AND STRAW

The trade seems to be gradually coming to the belief that hay prices will not go lower, and are likely to go higher before the winter is over. In Eastern Ontario and more particularly in the Ottawa Valley, and in parts of Quebec, there is a real scarcity, many farmers finding it necessary to buy hay for their stock. On Ottawa market last week loose hay was quoted at \$19 per ton. Some Americans are also in the market for Canadian hay. At Montreal baled hay is quoted all the way from \$11.50 to \$15 per ton. Here supplies are more plentiful and prices for the moment are not so firm. No. 1 timothy is quoted at \$11.50 to \$12 and No. 2 at \$9 for car lots on track Toronto. On the local farmers' market loose hay sells at from \$10 to \$15 per ton.
Baled straw is easier here at \$6.50

The potato market is quiet and eady. Ontarios are quoted here at steady. Ontarios are quoteu here steady. On to 75c and Eastern at 80 to 85c

er bag to the trade. The bean market seems to be firmer, though dealers are not anxious to buy and are expecting an easier market. At Montreal quotations are quotations are \$1.25 to \$1.35, in a jobbing way.

EGGS AND POULTRY

The egg market continues strong The egg market continues strong and prices continue high. The principal business is in storage stock. Very few new-laid are coming forward. At Montreal they are quoted at 40 to 50c to the trade. Here there is a good demand for all grades. Selects are quoted at 25 to 27c and new-lects are quoted at 25 to 27c and newlaid in a jobbing way at 30c per dozen.
On Toronto farmers' market newlaid bring 40 to 50c per dozen.
Very little poultry is coming forward and the market is on the quiet

side. Quotations here in a wholesale way are as follows: Chickens, dress-ed, 9 to 11c; fowl, 7 to 8c; ducks, 9 to 11c; geese, 9 to 11c; turkeys, 11 to

Montreal last week at 133sc and holders are said to be ask-ing 1334c. Colored goods are selling higher than white just now, owing

fall creamery, though less desirable grades are easier, the former being quoted at Montreal at from 24c to 26c. Some Canadian butter returned from England sold in Montreal last week at 24 to 25c per lb. Prices are firm here at 26 to 28c for choice creamery prints and 24 to 25c for solids. Dairy prints are quoted at 22 to 23c and pails and tubs at 18 to 20c for choice quality. On Toronto farmers' market butter brings 28 to 30c per lb.

LIVE STOCK

Live stock receipts rule large, with the quality of the fat cattle offering not as good as the trade all round requires. Trade rules brisk for the Dest, with the commoner stuff easier. Exporters sell all the way from \$4.00 to \$3.20 per cwt, the latter figure only for very choice quality. Export bulls sell at from \$3.50 to \$4.25 per cwt. Prime butchers' stock is quoted at \$4.59 to \$4.30; good cattle at \$4.25 to \$4.40; medium, \$4.00 to \$4.20; common \$4.45 to \$4.00; common \$4.00; common \$4.45 to \$4.00; common \$4.45 to \$4.00; common \$4.45 of this kind sold last week at \$3.75 to \$4. Short-keeps, 1,200 lbs. each, sell at \$4 to \$4.25 per cwt. Common inferior stockers are not wanted. Good to choice milkers sell readily at

\$40 to \$55 each, and extra choice ones at \$62. Good veal calves are scarce and in strong demand. Too many skim-milk fed vealers are being offered. Prices range from \$3.50 to \$6.50, with

choice ones selling at \$7 per cwt.
The run of sheep and lambs has not been so heavy and consequently the market is stronger. Export ewes sell at \$4.50 to \$5 per cwt., culls and rams at \$3 to \$4; choice quality lambs at \$6.25 to \$7.00, and the more common ones at \$5 to \$6 per cwt.

The hog market is higher at \$6.90 per cwt. for selects and \$6.65 for lights and fats, all fed and watered.

The horse market has ruled active, with numerous sales. Prices rule about the same as at last writing. .50

The Annual Meeting of the Ontario Veterinary Association

(Continued from page 80.)

(Continued from page 80.)
Bowlby, V.S.; W. Steele, V.S.; Jas.
Stewart, V.S.; J. W. Porter, V.S.; J.
A. Tancock, V.S.
Auditors—Dr. C. Elliott, V.S., and
Dr. J. H. Reed, V.S.
Delegate to the Industrial Exhibition, Toronto—Dr. Andrew Smith,
F.R.C., V.S. Delegates to the Western
Fair, London—Dr. J. D. O'Neil and
Dr. W. J. Wilson.

C. HEATH SWEETAPPLE,

Farmers' Institute Meetings

The following Institute meetings will be held during the latter part of

REGULAR MEETINGS

Div. 1.—Speakers, H. Jones and W. C. Shearer. 14th, (x) Durham, 15th, (x) Havover; 16th, Watron; 15th, (x) Havover; 16th, Watron; 15th, Port Elgin; 12th, Lakeler; 22nd, Lavery's School House; 23nd, (x) Acton; 24th, (x) Georgetown; 25th, Hornby; 26th, McCurdy's.

Div. 2.—Speakers, W. Elliott and J. Gardhouse. 12th, (x) Coldstream; 14th, (x) Beechwood; 15th, (x) Alisa Craig; 16th, (x) Parkhill; 17th, Exeter; 18th, Brueefield; 19th and 26th,

Craig; 16th, (x) Parkhill; 17th, Ex-cter; 18th, Brucefield; 19th and 20th, Inwood; 22nd and 23rd, Brigden; 24th, Walker's School House; 25th, Middle-

Div. 5.—Speakers, E. C. Drury, J. L. Warron (15th and 16th), J. M. McCallum (24th and 25th), Miss B. Carter (17-23). 15th, Conn.; 16th Section (24th and 25th), Miss B. Carter (17-23), 15th, Conn; 16th, Kenilworth; 17th, Annan and Leith; Seh, Strathavon Hall; 19th, Owen Sound; 21st, Kemble School House; 22nd, Klisyfrown's School House; 22nd, Klisyfrown Head; 25th, Churchill. 24th, Bond Head; 25th, Churchill.

SUPPLEMENTARY MEETINGS

Div. 2.—Speakers, Dr. H. G. Reed,
G. Barbour (22-31), Miss B. Miller
(14-22), 14th, Holland Centre; 15th,
Markdale; 16th, Priceville; 17th, Hopeville; 18th, Dandalk; 16th, Badgeros;
28th, Minesing; 25th,
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Phelpsto; 28th, Minesing; 25th,
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Minesing; 25th,
Phelpsto; 26th,
Phel

29th. Wexford: 30th. Box Grove; 21st. Victoria Square.
Div. 13.—Speakers, T. G. Ravnor, W. P. Stephen (11-19). A. E. Sherington (19-29). 11th. Oakwood; 12th. Little Britain; 14th. Valentia; 15th. Omenee; 16th. Dunsford; 17th. Cambray (x); 18th. Burnt River; 10th. Bethany; 19th. Manver's Station; 21st. Millbrook; 22nd, Cavawille; 23rd, Garden Hill; 24th, Canton; 25th. New-

UNIVERSITY COLLEGE OF WALES ABERYSTWYTH

(A constituent College of the University

Professorship of Agriculture

The Council univer amplications for the post of Perfessor of Aericulture at the above (of lene, as a salary of \$350 a year.

Amplications, together with 'in printed copies of testimoniats, must reach the undersigned, from whom full narriculars may be obtained, from whom full narriculars may be obtained, and later than Saturday, January 18, 197, and later than Saturday, January 18, 197, Registrar, Registrar,

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Advertisements under this head one cent a word. Cash must accompany all orders. No display type or cuts allowed. Each initial and number counts as one word.

FARMS FOR SALE

outbuildings, good state of repair; orchard For price and full particulars address S. G READ & SON, Brantford, Out.

HELP WANTED

WANTED—A reliable man and wife, no family, Man to be thoroughly up in general farming and its Advises H. G. CHARLES WIJETH, 61 Adelaide St. E. Toronto.

WHEN you learn Telegraphy you want the best instruction it is possible to obtain. This is exactly what you get at the Dominion School of Telegraphy, and Kalivasding, Toronto. B. WALKER SOMERS, Frincipals. Send for

WANTED—Reliable agents to sell Fruit Trees, etc., during fall and winter months. Terms the best in the business. Established over thirty years. PELHAM NURSERY CO., Toronto.

BIG WAGES selling northern grown Trees, Outfit supplied. Pay weekly. WISNER'S NURSERY, Port Elgin, Ontario.

MISCELLANEOUS

FOR SALE

Holstein-Friesian Bull, registered. For sale by CHAS, W. IRWIN, Birkendale, Ont.

SITUATION WANTED by married Scotch nan as Farm Manager, with practical knowledge of all kinds of farm work. Good refer nees. Apply Box 188, Freeman, Ont.

FARMS WANTED

WANTED A 100 acre farm in good cultiva-on, with good buildings and modern improve-nents, in central Ontario, near railway sta-on. E. G. McCALLUM, St. Elmo, Out.



ROCK SALT for ho Toronto Sait Works, Toronto

tonville; 25th, Newcastle; 26th, Orono;

tonville; 25th, Newcastle; 25th, Orono; 25th, Solina; 29th, Nestleton.
Div. 14—Speakers, J. W. Clark, D. C. Anderson (15-30), J. W. Clark, D. C. Anderson (15-30), J. W. Widdifield (Jan. 31st and Feb. 1st). John, is S. Grey (Jan. 25th and Feb. 1st). John, is Consecon; 15th, Wellington; 16th, Demorestville; 17th, Cressy; 17th, Wanpoos; 18th, Milford; 20th, Cherry Vailey; 19th, West Lake; 21st, (s) Wooler; 22nd, (s) Brighton; 23nd, Colborne; 24th, (s) Brighton; 23nd, Colborne; 24th, (s) Castleton; 25th, Rosencath; 56th, Baltimore; 28th, Kreenbank, Div. 15.—Speakers, W. F. Kydd, T. Mason, 18th, Madoc; 18th, Eldorado; 18th, Martinora; 16th, Ivanior; 17th, Solora; 18th, Stiffing 19th, Funner; 20th, 1stiffing 19th, Tunner; 18th, 18th,

House; 29th, Cataraqui; 30th, Glen-burnic; 31st, Sunbury. Div. 16.—Speakers, C. W. Nash, A. C. Hallman. 15th, (x) South Moun-

CH allman. 15th, (x) South Mount.

Hallman. 15th, (x) South Mount.

Winchester Springs; 18th, (x) Chesterville; 19th, Moulinette; 21st, Northfield; 22nd, Apple Hill; 23rd, Maxville;
24th, McCimmon; 25th, St. Eugene;
25th, Plantagent; 28th, Leonard; 29th,
Russell; 30th, Casselman.

Div. 17.—Speakers, H. Glendinning,
R. S. Stevenson. 12th, North Gower;
14th, Manotick; 18th, City View; 18th,
South March; 17th, Sittsville; 18th,
Munster; 18th, Glasgow; 21st. AdAlice; 1p.; 24th, Greenwood; 25th,
Alice; 1p.; 24th, Greenwood; 25th,
Colden; 28th, Drummond; 28th, Balderson; 29th, Harper; 30th, Maberley.

(x) Women's Institute meetings
will be held at these points. will be held at these points.

.38 Butter Scoring Contest

Butter Scoring Contest
The standing for the season in the
butter scoring contest for "creamgathered" creameries, which was car
ried on under the direction of the
Eastern and Western Dairymen's Associations and the Department of
Agriculture during the past season,
is presented herewith. Thirty-five of
those who entered the competition
furnished three samples, which were
each scored three times. We give
below the relative standing of first
fifteen.

below the relative standing of first fifteen.

L. A. Southworth, Cannington, 9488 per cent., prize \$30; D. E. Mc-Kenzie, Beaverton, 9449 per cent., prize, \$30; W. A. McKay, Underwood, 9446 per cent., prize \$30; Jno. Mc-Quaker, Owen Sound, 9436 per cent., prize \$16; F. E. Brown, Dutton, 9425 per cent., \$10; J. Herb. Thompson, Lucan, 53:1 per cent., \$5; Jas. Walker, 54; Jas. Walker, 54; Jas. Walker, 55; Jas. Walk

Publisher's Desk

(Continued from page 42.) (Continued from page 42)
Free Subscription to the Large Illustrated Paper for Dairymen—The
Separator News, A big paper, hualsomely illustrated in colors, entirely
devoted to the success, prosperity and
protection of separator users and retending separator purchasers. Syry
issue brimmi of special diustrations
and information—what might be called inside facts—that will help ym to
decide whether a cream separator will decide whether a cream separator will pay you, how large a separator you should have and how to care for a cream separator so as to get the most out of it. Articles guarding you against the "patent can" fraud and against the mistakes of buying a too cheap or a too complicated separ-ator. Articles telling what State Experiment Stations say of cream separators Articles comparing different kinds of cream separators. frent kinds of cream separators. In fact, a whole paper devoted to cream separator news. Would you like to receive every future issue—without a cent of expense to you? Then write the publishers, The Sharples Separator Co., of West Chester, Pa., asking them to put your name on their mailing list. But don't forget to mention that you saw this offer in The Farming World, Toronto, Ont.

Canadian Industrial Expansion

adian trade is appreciated more and more, as evidenced by the location of American and English industries

ion. In consequence, Canada's industrial expansion is progressing rapidly. The latest invasion is that of the Gilson Mig. Co., of Port Washington, Wis., which concern is now building a plant at Guelph, Ontario. Here the wonderfully successful "Goes Like Sixty" line of gasoline engines will be manufactured.

The Gilson 1-h.p. \$60 air-cooled engines are attracting universal atten-tion. They incorporate a number of distinctive features that make them distinctive features that make them particularly desirable for ordinary every-day use among farmers and others who are not mechanics. The others who are not mechanics. The Gilson engines—all sizes—are made so simple that they can be operated by anybody successfully without pre-vious experience. Furthermore, the prices quoted on the Gilson engines place them within the reach of all

No doubt the Gilson Mfg. Co., Ltd., Guelph, Ontario, which is the name of the new Canadian concern, will reap a full measure of success pro-portionate to what the parent con-cern has attained in the States.

34 Boys' Good Training in English Army Schools

The Army Schools at Aldershot (England) have begun to put into practice the preaching of Lord Ro-berts, who is always advocating the need of the rising generation to be taught the use of the rifle, says the London Illustrated News, in an article entitled, "The Boy Behind the

The schoolmasters now instruct the by sin the principles of rifle-shooting by the aid of tripods, sandbags, etc. The youngsters enjoy their new les-

In America there is no warmer supporter of the beliefs of Lord Ro-berts than the J. Stevens Arms Tool Co., of Chicopee Falls, Mass. The propaganda of this company has done much to train the faculties of done much to train the latenties of girls as well as boys through increas-ing their interest in rifle shooting. The use of a gun teaches boys and girls to be alert, careful and decisive, while the outdoor life it encourages does much to improve their health.

Goes much to improve their health.

Every parent, as well as every lover
of a firearm, should have a free copy
of the new 140-page gun catalog issued by the Stevens Company. It
has much interesting information
about sights, targets, ammunition, firearms, etc. It is sent for four cents in stamps to cover postage, if you mention The Farming World, Toronto

A Laggard

Oh, little Afterthought, I wish You had not come to me, For with myself I otherwise Quite satisfied should be, You're excellent, but I deplore That you should not have come be-fore.

Why is it that you are not prompt, But saunter in instead When all the things I've done are

When all the done,
And all I've said is said?
Of nuisances you are the worst;
Don't come, unless you come at first!
—Eunice Ward, in Life.

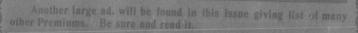
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HE FARMING WORLD

THE FARMER'S LIBRARY

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JANUARY PIANO SALE

Square Pianos, Upright Pianos and Grand Pianos. Priced away down

Careful buyers will find in this list a unique opportunity—an exceptional chance to secure a fine piano at a great saving in price. Our Christmas trade was greater than ever, and many really good pianoe were traded in part payment for the GOURLAY. Some are included in the list, the others are instruments that, having been used a short time, cannot be sold as new, even though they both look and sound that way—we have put them on the list at cut prices for INCREASED BUSINESS, 'We, do not intend to have any quiet month in our business.

CLASS A

Three fine square pianos in splendid order, fully guaranteed for five years. A little more old-fashioned than an uprgist, otherwise they would be higher priced. They are the best possible musical value, and will be very durable, being thoroughly reconstructed with new material.

TERMS OF PAYMENT-\$10.00 Cash and \$4.00 per month, or in proportionate quarterly or half-yearly A discount of 10% for cash

.... Sale price, \$113

HEINTZMAN & OO.—7½ octave square grand piano by Heintzman & Co., Toronto, in handsome rosewood case, with carved legs and lyre, double plinth and serpentine mouldings, full iron frame, overstrung scale. A splendid plano. Original cost, \$450.

CLASS B

Eight upright pianos by standard makers, and every one in perfect order. A better chance to buy a good well-known upright piano for little money was never offered.

TERMS OF PAYMENT-\$10.00 Cash and \$6.00 per month, or in proportionate quarterly or half-yearly A 10% discount for Cash.

GREAT UNION UPRIGHT—71 octave upright piano by The Great Union Piano Co., New York, chonized case with solid panels, trichord overstrung scale, double repeating action, etc. Height 11, in Original cost, \$325 .. Sale price, \$178

4 ft. 4 in. Original cost, \$325.

DOMINION—Small size walnut uprijht piano by The Dominion Co., Bowmanville, in use only about a year;
has three pedals, full iron frame, trichord overstrung scale, etc. Manufacturer's price, \$250. Sale price. \$189

KARN—75 octave uprijht piano by The D. W. Karn Co., Woodstock, in dark rosewood case, with solid
panels, full iron frame, trichord overstrung scale, double repeating action, ivory and ebony keys, etc. . Sale price, \$205

Original cost. \$350.

Sale price. \$205

HEINTZMAN & OQ. —7½ octave upright piano by Heintzman & Co. Toronto, in burl walnut case with solid panels, trichord overstrung scale, ivory and ebony keys, double repeating action, etc. Manufacturer's price, \$375.

KARN—7½ octave piano by D. W. Karn & Co. Woodstock, medium sized, in walnut case with full length music desk, Boston fall board, solid panels, ivory and ebony keys, etc. Manufacturer's price, \$275.

GERHARD HEINTZMAN-7½ octave upright piano by The Gerhard Heintzman Co., Toronto, in Circassian . Sale price, \$228

GERHARD HEINTZMAN—7; octave upright piano by The Gerhard Heintzman Co., Toronto, in Circassian walnut case, with full length music desk, engraved panels, trichord overstrung scale, ivory and ebony keys. Manufacturer's price, \$375.

**MENDELSSOHN—7; octave upright piano by the Mendelssohn Co., Toronto, in walnut case, medium size, full length music desk, polished panels with border of carvings, three pedals with practice muffler, ivory and ebony keys, etc. Used less than one year. Manufacturer's price, \$340.

**DOMINION—7; octave upright piano by The Dominion Co., Bowmanville, in handsome figured walnut case, with full length panel and music desk, Boston fall board, 3 pedals and practice muffler. This Cabinet Grand piano has been used less than is months, but is just like new. Manufacturer's 2005.

CLASS C

Five extraordinary bargains—two grands and three upright grands—pianos in a class by themselves in every detail of musical and mechanical excellence. The opportunity to purchase one of these pianos at a reduction is rare inde

TERMS OF PAYMENT-Reasonable monthly, quarterly or half-yearly payments can be arranged. A 10%

GOURLAY—Cabinet grand upright piano of our own make, in beautiful Circassian walnut case, with full length music desk, plain polished panels and Boston fall board, height 4 ft. 7 in. If we were to make a piano at \$1,000 in this size, it could be no finer than this instrument. The additional cost would be for case decoration. This piano is the \$425.00 style, but as it has been used for fifteen months, we \$308

order it for

GOURLAY—A superb new grand scale Gourlay piano, in rich walnut case of ornate Colonial design. This

is the same style of piano as the one furnished the Countess of Minto three years ago. It is the largest

style of piano we make, and in musical quality is unsurpassed. It has been used eighteen months.

style of puno we make, and in musical quality is unsurpassed. It has been used eignteen months.

Special sale price \$335

KNABE—A peerless Knabe in rich mahogany case of new design, full length plain polished panel with moulding border. Boston fall board, three pedals, etc. An almost new piano which has just had three months use and is a little shop-worn. Regular price \$600.

Special sale price \$430

HARDMAN BABV GRAND—Very attractive baby grand piano by this old reliable firm, in rich burl walnut case, particularly graceful in design and deep and full in tone. Fit to grace any drawing-room. Regular price, \$750

STEINWAY GRAND—A Steinway parlor grand in rosewood case, but though used, is in first-class order.

being as good as new both in tone, action and appearance. Regular price, \$1,000..........Sale price \$565

Gourlay, Winter & Leeming 188 Yonge Street, Toronto