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VOL. XXXIX. LONDON, ONTARIO JUNE 30, 1904. WINNIPEG, MANIIOBA. NO, 614

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TABLE OF CONTENTS.-The hist of Contents in this issue of the "Frarmer's Advocato" will be rouma


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## cossip.

According to The Albany Argus, twelv apecies of insects do an ostimated damage of $\$ 363,000,000$ a year to American farm products. The chinch bug heads the iat, with $\$ 100,000,000$ a year; the rasshopper. $\$ 90,000,000$; the Hessia \%. 500000, 00 , boll worm, $\$ 25,000,000$ apiece ; the cot
ton boll weevil, $\$ 20,000,000$; the San Jose scale, grain weevil, apple worm and rmy worm, $\$ 10,000,060$ apiece ; the pototo bug, $\$ 8,000$,
day of big ranches passing. Western Texas has suffered last spring rom the severest drought in many years fundreas of cattle died on
or want of watur and grass,
The rancing bur in that vast ro lon is dechiping anyway, and the rowatly ecoelerate the cutting up of the reches into small holdinge. This proc ass has been going on for several yeare. Perhaps in no other part of the worl is so much land in big estates owned by ndividual property holders. In Texae individual property holders. In Texas acres each, which are the property of the individuals utitizing them.
A New Yorker was travelling on horee bock last summer over the prairies of north-wentern Texas when he cavio to wire fence that stretched away as far as he could see. The road had led him to - gatoway in this fence and on ft was sign, reading "Eighty milos from thit The horseman passed through the gate and in a Hittle more than two days travelling over the grassy plain reached
headquarters. That wire fence encloses hesoo,000 acres of grazing land. It is known as the J. A. Ranch, and the sole owner is Mra. C. Adair, who
Hives in a fashionable part of London, England, and for ten years has made an annual profit from her ranch of more
than
$\$ 100,000$. 88,000 head of ine cattle on the ranch and 6,000 head of steers are shipped on an average every yoar
area years ago this vast area was purchased by the late Mr. Adair for from st to sy an acre.
There are four ranches in Texas with an area of over $1,000,000$ acres aplece;
and there are a largo number of ranches whth areas of 500,000 nacres or a little les. But the days of great Texas
ranches are about over, and the reason 1s ranches are about over, and the reason 1 s
that more and more farmers are looking in this direction for tillable lands.
They find that the larger part of the lands which have been used for nothing but grazing havo abundant fertility and crops. They are buying hundreds of thousands of acres at $\$ 5$ to $\$ 7$ an acre.
It takes from ten to twenty these range lands to fatten a single stoor. If the ranchmen can get $\$ 5$ an acre or more for their land they can cent. and make more than they do in cattle-ratsing.
So the ranches are being continually whittled down to make farms, and last year over $1,000,000$ acres of ranch property were purchased by settlers from
the North and East, and the plow was the at work turning the sod under.[Thresher World.

> TRADE TOPIC.

BRUSHES.-In dealing with a wellknown firm one always feels a certain so ducting transactions with people with whom one is not familiar. The same thing is true of household articles. When one has tried a brush or broom and we know of something better. If it is a "Boeckh," we know there are none hetter: If it is not a "Boeckh," well
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## EDITORIAL.

## Influence of Example.

A good example in life and conduct along moral lines has greater influence upon others than
is generally acknowledged, and, in like manner. is generally acknowledged, and, in like manner,
the example of the man who farms well or introthe example of the man who farms well or introduces horevent in and neighbors hat, th ouki not alioys ahis more often appare in thei athoption of his more ad vanced and improved methods. We have in mind a man who, many years ago, when farmers gensible of the woods on their farms, placed a fence around a generous portion of his wood land to protect and preserve it, with the result that he has now a wood-lot that is a source of pleasure as well as of profit to him, and is admired by all who see it in its summer dress. Although few followed his example in that matter, and many now regret they did not, he did another thing along the same line that many have copied, to their great satisfaction. He planted young maples, elms and basswoods at intervals along the front of his farm, by the roadside, and on both sides of the lane to the homestead, and a shelter-belt of spruces and pines on the north
side of his buildings and orchard, and on the srounds in front of his house all of which have grounas in front of his house, His neighbors grown into beauty and blessing. His neighbors,
for miles in either direction, one after another, Ior miles in either direction, one after another,
began to plant trees by the roadside in front of their farms, until now a drive over that road in summer is a pleasure, the homes beautified and farm life made more attractive, and when for any reason a farm in that district is offered for sale no one will deny that this planting enhances its selling value
provements.
We know a man who took an interest in improving the public road in front of his place, and when the regularly appointed roadmaster refused to deepen a ditch to quickly carry off surplus water from a piece of road that was notoriously bad at certain seasons, with his own men and Leams he did the necessary work in a day, greatly improving the road, and, at the same time, the condition of his own fields, portions of
which were often water-soaked from the same Which were often water-soaked from the same cause. Encouraged by this experience, he pre hauling gravel in winter to further improve that piece of road, with the gratifying result that the roadmaking policy of that division was radically changed and most of the statute labor devoted to drawing gravel until that became the best piece of road in the township, and the good work was in time extended to most of the roads of the municipality, to the great satisfaction of all concerned.
The benefit to his crops from the deepening of the roadside ditch led this same farmer to consider the advantage of drainage, and by using the plow and road-scraper to deepen the surface ditches leading from certain slack places in his fields, his crops being greatly improved in those portions, ripening more uniformly, so that harvest could commence earlier, no part of the crop being allowed to get overripe before being cut. He found that by cutting the grain before it was dead ipe there was less waste from shelling, while the
straw made nuch better feed for stock. This experience led him to make a study of systematic underdraining, and, preparing a map of his farm he hy degrees, as he could spare the time, first laid down suitable tile for main drains, to which
laterals in the most needy places were laid, and,
later, additional ones, until his whole farm is now thoroughly underdrained, the advantage from which has been noticed by his neighbors, and tile draining in that district has been generally adopted, and is acknowledged to be a profitable investment, the improvernent in the crops paying for its whole cost in two or three years ; while the work, if well done, is practically permanent.
These are ciled as examples, which might be greatly multiplied, of the influence for good of men who do things, instead of merely talking of what might be done and what should or could be done. We might, did space permit, present in contrast the recora of the man who made the longest whe the the dosg of Noab the end of his tongue, who could expatiate at length upon scientific theorise and whose life was soured by the failure of his neighbors to apureciate his qualitications for of fice in the county council or the Legislature, but whose farm was a striking illustration of how not to do it, his fields an exhibition of the " yellow peril "and kindred weeds, his implements stored under the canopy of the blue at the back of the Iarn, and his stock the scrubbiest of the scrubs, but we trust we have written enough to set someone thinking of some things that may be done by any farmer without taxing unduly his time or his pocket to improve his own condition and prospects, and, at the same time, by his ex-
ample to encourage others to go and do likewise.

## Agriculture in the Canadian Parliament.

Listening to debates on subjects relating to agriculture in the House of Commons at Ottawa, it must be reluctantly confessed that one is not impressed with the dignity of Parliament nor its businesslike character. When measures are under consideration for the advancement of the agricultural interests of the country, a great deal of the eriticism is destructive rather unan constructive. roo many men scem to dear wh propositions before the House from the view-point of party rather than hor he farmer. An so far as the farmer is conce we pacve ther is a growing sentiment abroad that cre not asprove the consideration of the agricultural estimates in the light of a huge joke or as a party football.
Here is a specimen press-gallery paragraph from one of the big party dailies, in which a speech by a member of the House is burlesqued
"Mr. Speaker," he said, the records of the
ricultural Committee will show that I am frist in every practical movement to advance this fair Canada of ours. From time to time, my voice has been raised in behalf of progress and reform th was 1 who suggested arms. It was I who brought the attention of the farming combrought rata of crops which would re munity a exhausted soil and turn a blight into heve ing allude sir to my famous theory that wild mustard should alternate with ham sand wiches in the fields of the grand old Province of Ontario. Who was it that took hold of a waste product like campaign literature and by using it as manure saved this country thousands dollars? Who was it induced pumpkin pies to grow on bushes, and so avorid the pastry cook and the middleman? who was it encourage hens to lay hard-boiled eggs and build up the
picnic industry of this broad Dominion Who pas it industry of this broad Dominom who sown with buttercups, and that windmills should be run with speeches from Hansard? Who was it solved the problem of irrigation by planting the side lines with water lilies? Who was it advocated that there should be Government owner ship of air? Who was it protested, day in and day out, against the scandalous and extravagant practice of equipping rallways with Ascot ties? Who was it, when there was a new idea to boost was in the van and over the touch-line? Who but the member who now addresses the House," Forturaty, Fortunately, there is a saving remnant of
members, not confined altogether to one side of the Speaker's chair, who take a more serious and sensible view of their duties than mere faultfinders or burlesque actors.

Let us keep first things first. Our agricultural exports (including animals and their products) are more than double our exports of matufactures, and nearly one-half the total exports of the country. During the writer's presence at several sittings of the Ottawa House, recently, we saw the seats of scores of M. P.'s empty when agriculture was under debate, some of those who were there asleep, and others who had no practical knowledge of farming wasting hours asking ridiculous questions for the purpose of badgering
the studiously courteous Minister of Agrithe studiously courteous Minister of Agri-
culture. Onie hon. gentleman struck a snag in the Central Farm estimates, and was bound to commit Mr. Fisher to some particular form of fastening for cattle, and when the Minister would lastening for cattle, and when the Minister would
only say how his own beloved Guernseys were tied, the irrepressible M. P. wanted to know, with all the gravity of an owl, whether cows would sleep as soundly in swinging stanchions as in chains? Another hon. gentleman slashed right and left, alternately knocking the unhappy experimental stockman, the beekeeper and the poultry manager, proceeding upon the theory that if the Farm, apart from the plots, did not show an actual cash profit, then all was loss and the gether from the merits of what is being done or attempted at the Dominion experimental farms, this unique theory of the purpose of investigation is one to which the intel:igent farmers of Canada is one to which the inteligent farmers of Canada
do not subscribe. A given experiment may even demonstrate a loss, but the knowledge so gained may be worth thousands to the country. Doe any dairyman begrudge the years of time and sums expended before Dr. Babcock discovered his butter-fat test? The utility of experimental work depends upon the men who plan and carry it out. A great deal of it may be no more than an accurate scientific check upon what some in dividual feeder or grain-grower has learned by private enterprise and effort, knowledge of which hereby becomes more wietives Member are quite within their rights in discussing the conduct of the experimental farms and in seeing that the statement of accounts given in the farm report and in the report of the Auditor-General correspond, but it is also desirable that those en trusted with the management of these farm should have advice and counsel from time to tim as well as criticism once a year. On the other hand, the officers, as servants of the people, do well to keep in close touch with the man on the farm and in the market, and with open minds be ready for suggestions from any quarter, so that their investigations will have a direct bearing up on present-day problems
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## The Seed-growers' Organization.

Primarily, the success of the newly-organized Canadian Seed-growers' Association in improvin the yield and quality of the field crops of Cana da will depend: First, upon its chief officersthe President (Prof. J.cretary (Mr. G. H. Clark Chief of the Seed Division), and the Executive second, upon the four superintendents of district into which the Dominion is divided; third, upe specialty ; and fourth, upon the general farme whose sympalhy and co-operation is to be er listed. The report of the inaugural gathering
Ottawa, given in last week's " Farmer's Adr cate," indicates the general scope and plan of the work contemplated. The attainment of the ob jects in view will depend immediately upon the manner in which principles are applied and plans worked out.
We apprehend, in the first place, that there will be a disposition to work in accordance with the democratic spirit of canada, and he can, as well or better, do for himself; in other words, to recognize that there are limits to what is called paternalism. Everywhere, the educational policy manda is an assortment of Provinces or communities, of different natural conditions and types of men, so that rules and regulat be applicable ir the West or in Ontario. This diversity will be recognized, and hence, as already indicated, much will depend upon the distict or Provincial superintendents. It will be necessary for them to be discoverers of men and conditions, and to exer-
cise tact as leaders. There are larye numbers of men who successfully grow field crons on an he mimutale who would not care to undertake stlewtion, hand and and there good men of repute
seed growing and improvement as a specialty
The institution of seed fairs, we are satisfied, can be undertaken with advantage in many additional localities, and, in our judgment, another very direct way of accomplishing the objects of the new association will be by laking advantage of the fairs now existing all over Canada, alming to improve their prize lists a gement of their exhiks beeds can take the Here, too, the war against wion. Speaking genform of an educational campaign. erally, comparatively improvement.
There is also an extensive and pressing opportunity for determining and diffusing knowledge as to what constitutes ideal types or seed. The largest possible yield of a clean crop produced at a,profit is what the farmer is after, but when we come to consider wheat, for example, as a marketable product, and, to a great degree, oats as well, the milling quality is an essential consideration. It is most desirable that we should have clear conceptions of the secured in conjuinction head and kernes to be secured ir variety free with the to mis is

G. H. Clark, B. S. A.
eell Commissioner. Department of Agriculture, Ottawa, and
secretary of the Canadian Seed -growers A ssociation.
undeniable that certain varieties of grain, such as the Banner oat, introduced into Canada through private enterprise years ago, seem to possess outstanding inherent merits that perpetuate them Selves, as do the characteristics of certain breed.
of live stock, under a great variety of conditions. though the better they are cared for the better the returns. Our attention was recently called to the returns. Our attention was recently called to
a case where, in one section of the country, cereal had been grown for over fifteen years it succession without any evidence of deterioration. but, rather, improvement in yield and quality, by means of a system of good cultivation and careul selection and screening of the seed every year. i a given grain or potato in a locality, the gen eral theory of this movement, as we understand it is 10 fix an ideal, and to reach or improve it what is iminior, continuing this system from yea to year. So important and practicable is this principle regarded in the Western States corn
belt, that associations of seed-corn breeders have
been organized for the purpose of ensuring sup)been organized for the purpose of ensuring sup)plies of seed corn, improved, not only in yield protein) in quality (particularly the content of protem) No doubt, many incidental problem.
working of the Canada Seed-growers' Associatim, but its purpose is most commendable and atle and effectivo

HUKDES.

## Raise Good Horses.

Probably never in the history of horse-t, reeding in America have farmers exploited the industry so vigorously or so inteligently.
stallions of cheap quality have been eliminated from the problem, and only the best imported or domestic-bred sires are being patronized. Im-
porters are buying the tops for improving the porters are buying the lops for improving the mals are a drug on the market.
It costs as much to house, feed, mature and manner an inferior horse as a good one of its
class, while the better grade will outsell the inferior class, while the $\$ 100$ in then, that the difference of $\$ 100$ per head between the foals of good coach or draft stallion at marketable age would make a difference in the
commercial value of the progeny of a good sire over the of on inferior stallion $\$ 5,000$ annually. This is demonstrated every day in the wholesale markets, and also realized by every stock company that has introduced a good stal-
lion into any breeding district. Consider that lion into any breeding district. Consider that
the farmers of any locality who have access to the service of any good stallion will show a net profit in the year of $\$ 50,000$, as compared to patronizing inferior sires. Good stallions give
great immediate profit over the services of an great immediate profit over the services of an
inferior sire, and also lay the foundation for further improvement in their best female progeny that are retained for breeding purposes. As the breeding season is at hand, farmers should
ronize only the best stallions in their locality ronize only the best stallions in their locality, as
the commerciai demand is for better horses.[Drovers Journal.

## The French Coach Horse

## Origin.-Since 1870, the French Government

 has been giving attention to the development of their horse-breeding interests. A Director-General, with qualified assistants, directs the work General, with qualified assistants, directs the work
of the Government studs, and through these Thoroughbred stallions have been imported from England and Arabian stallions from Arabia. 1883, a studbook was established by royal decree, undess belonging to a Government stud or haras. Owing to the financial aid which is obtained from the Government, the best stock-getting stallions are prevented from leaving the country, and throw a definite course in their development. In 1885, a decree was issued excluding from public use all stallions not authorized by the Government. The French Coach is the result of crossing Arantive mares of Characteristics.-The typical French Coach horse is in all essentials a coach or carriage horse. They stand about 16 hands high and weigh 12 to
14 cwt . The best type is striking in 14 cwt . The best type is striking in appearance,
being upstanding and carrying their head and being upstanding and carrying their head and
tail high when in motion. They are smooth and
symmetrical, and frequently of fine quolity and symmetrical, and frequently of fine quality and
very graceful in movement, with high knee action ery graceful in movement, with high knee action
and regular hock action. They have intelligent and regular hock action. They have intelligent
heads, graceful necks, snugly-ribled bodies, and heads, graceful necks, snugly-ribled bodies, and
muscular quarters, and while some are cleanlinlued, there are many that are coarse and heavy in these parts. The common colors are breeding of these horses, they are uniform in type, a result likely due to the uniformity in the ideals breeding operations. In coinparison with the Hackney, the French Coach is more rangy in type, their action have been encouraged by having the trotting races held on sod instead of tracks, like those in this country. Trotting on sod requires a quicker movement of the pasterns takes place as the feet leave the ground. The French Coacher has not been bred for speed, but rather for gracefulness, stamina and beauty of form. The (iov ernment established in 1831, the Derhy and
Teger laces, which are trot ted over from two three and three-quarter miles on the tuif. To prevent sacrifice of size for speed, a law has heen
enacted excluding from races all horses under $15 \frac{1}{2}$ enacted excluding from races all horses under $15 \frac{1}{\frac{1}{2}}$
hands high. The trottinge Derby for threevearolds requires all animals to be trotted under the saddle on the sod track, carrying not less than
120 pounds, and the distance is two miles. The St. Leger for three-year-olds includes a distance of two and a half miles on a similar track. In
1891, of the 312 trotters in the official yearIn 2.45 per mile ; 62 of them under 2.40 , and
101 of these were three-year-olds an
101 of these were three-year-olds. The best time nade by three-ycar-olds was that of Parvenche, the
2.971 per mile. The best time made by four-year-oldetuese. The course was 200 yards short of two miles. The best time made by five-year-
olds was three and one-eighth miles at the rate olds was three and one-eighth miles at the rate
of $2.333-5$ per mile, made by Ismerie. The astest three and three-fourths miles was made by ing 176 pounds. Sans Vergogne, winner of the French trotting St. Leger, as a three-year-old,
trotted two and one-half miles in 8.40 . These trotted two and one-half miles in 6.40. These ing from two to two and one-half miles, carrying weight of 120 to 175 pounds.
Utility.-They are best suited for breeding tylish and handsome carriage and coach horses ith very graceful and moderately fast action. To produce such horses with any degree of cer-
ainty from French Coach sires the mares must tainty from French Coach sires the mares must
possess, to a liberal degree, Coach form and possess,

## Dietetic Diseases of Horses.

Diabetes insipidus (polyuria) is a disease charine, rapid emaciation, languor and delsility. the majority of cases, it is caused by food poor quality, but in some instances it appears to due to some constitutional cause, produced either in the digestive canal, the solid organs or he blood. In some instances it resulte from digestive derangement, and disappears when the iggestive apparatus has regained its normal con
dition. It also, in some cases, accompanies other diseases where digestion is imperfect. The most common cause, however, is found to be in the food
which the animal consumes. It has not been which the animal consumes. It has not been
shown that it is ever induced by the water it shown that it is ever induced by the water it
drinks. Dark-colored, heated hay generally causes excessive thirst and diuresis, it probably ant to the kidneys, but there is proliably no cause so fertile as hay, oats, bran or other food
that is musty or that fias been musty, even though the appearance of must may have been removed by kiln-drying or other processes. In
some seasons following a bad harvest we notice some seasons following a bad harvest we notice damaged food. Symptoms.- The diagnostic symptoms are ex
essive thirst and profuse urination; the urine passed is of a light specific gravity, and almost if not quite, as clear as water. In addition there
is noticed a failing of the appetite; the visible mucous membranes are pale, or sometimes a rusty mucous membranes are pale, or sometimes a rusty
yellow. The skin is harsh, the coat dry, staring
and unhealthy looking: the animal loses life and and unhealthy looking; the animal loses life and
ambition, becomes debilitated, and loses flesh ambition, becomes debilitated, and loses fles
rapicly. The pulse lacks tone, and is usually inapidly. The pulse lacks tone, and is usuaty
frequent, though sometimes more frequent than
mouth has nequent, though somets weak. The mouth has a sour odor. The horse usually has a taste for un-
clean food and water, and has a tendency to lick the stalls and manger. The symptoms are so plain, especially the excessive thirst and frequen
oiding of clear urine, that it is not difficult for any person to diagnose the disease.
ible, of course, the first thing to be done is to sible, of course, the first thing to be done is to
remove the cause. The food that the animal is consuming must be carefully examined, and if either the hay or grain be found of inferior qual-
ity, especially musty, it must be changed, and ity, especially musty, it must be changed, and nothing in particular can be found wrong with $t$ is possible there may be some deleterious substance in it th. cannot be readily detected. In cases when the inptoms are not severe, a change
of food is often all that is necessary, and it will soon be followed by a disappearance of to symptoms. In more severe cases, it is well give a slight purgative, as a pint of raw linseed oil, or five or six drams of aloes and two drams
ginuer. The diet should be restricted to hay and bran for a few days, and water, to which has
been added a tablespoonful of baking soda, should eqiven in small quantities and often. When the axative has ceased to operate, iodine should twice daily, given either in a pint of cold water
as a drench or mixed with bran or rolled oats dampered. The size of the dose should
diminished as the thirst disappears. Iodine may he said to be a specific for this disease. It has the action of arresting thirst quickly, and a the thirst is arrested, a noticealle apparent, the
the quantity of urine voided will be ap appetite is improved and all other symptoms of the disease disappear as soon as the system be-
comes charged with the drug. As soon as the achite symptoms, viz, great thirst and excessive
uination, disappear, the administration of iodine Uination, disappear,
must be discontinued, else we will produce a con-
dition called iodism. If the appetite should not return, the ordinary tonics, as one dram each of three times daily as long as necessary, wHIP."


Newton and Daisy Kerr.
Scene on the lawn of a farm homestead at Woodburn,

## Marr proceeded

" Mr. Cruickshank did not say very much to me about him, except that he was from a very grand herd of Shorthorus, and that he proved a good
wreeding bull: From other breeders I learned that he was extraordinary horns, standing up more like the Highand than the Shorthorn breed. I know that some other breeders of Shorthorns used to chaffi Mr. Cruick
shank about him, horns, I am sure there never was any reason for doub about his pedigree being all right-and he was to thick katural flesh. After being brought north he was turned out to grass along with a number of grand cows whic were not settling to his other bulls, but the change in our cold climate and the exposure of going out and
the fields during the fall of the year proved too much for him, and he did not live vary long. Fortunately several of the cows proved in calf to him, and one of the best of these produced the famous Champion of
England-a bull which was destined to bring the Cruick-England-a
shank Shorthorns into world-wide fame. This bull just
Sill shank Shorthorms Cruickshank's ideal. He was a big roan bull, on short legs, with a very masculine hea
enormous girth behind the shoulders, and thick flesh all over. I do not think I have ever seen a thicker block of natural flesh. His hind quarters drooped a and therefore he was not a particularly styish This may account for a fact which, perhaps, is not very generally known, viz., that having been exhibited at least once at an important show in England, he falled to get int
the prize-list. But this did not alter Mr. Cruickshank' the prize-list. But this did not alter Mr. Cruickshan the policy which was destined to carry him to success-1 shank herd after the advent of Champion of England The method which Mr. Cruickshank henceforth pursued and continued to the end was to select his best call in
successive years and use him on those females which successive years and use him on those females which
were least closely related to him. Thus it came in
time to be that the pedigrees of the different families in the herd were worked pretty much on the principle
信 Champion of England, but they were worked round on the different families of cows, a bull from one family of cows being used to a different family of cowe, and so
on. At the same time he kept in view the individual mating of the animals, so as to develop their good points and correct their deficiencies. Champion of Fing land proved a very impressive sire. His stock generHis sons and grandsons being used on successive generaHis sons and grandsons being used on succossive genera-
tions, soon produced a distinct type throughout the herd. It became filled with the blood of Chaimpion of England, and the family likeness became very strongly
marked throughout the whole of it. And not only so, marked throughout the whole of it. And not only so,
but owing to the strong concentration of his blood in the young bulls which were sold to other breeders of Shorthorns, these young bulls proved very prepotent sires, and left a distinct stamp of the type of the old Champion wherever they were used.'
Mr. Marr went on to speak of inbreeding and its
dangers : " It is a fact that those who know best will dangers : ist is a fact that those who know best will
be the last to deny that Mr. Cruickshank carried on this system almost to the limit of its profitable em-
ployment. He knew that he was needing fresh blood ployment. He knew that he was needing fresh blood introduced into his herd. He saw quite well that his
long-continued inbreeding was beginning to tell adversely upon the constitution and fertillity of the herd,
but being by this time but being by this time a very old man, he hesitated to make the experiment of bringing in now blood. He
therefore chose the other alternative, which was almost the only one open to him, of selling out the entire herd. And a most fortunate thing it was for the Shorthorn interests of this country that financial and other troubles in the Argentine Republic prevented the bulk
of it from landing there. I have indicated that Mr. Cruickshank's herd was becoming too closely inbred, and that the introduction of new blood would be something
A radical cross must of the nature of an experiment. A radical cross must
always be an experiment, because it causes a tendency of the progeny to sport and vary, or revert perhaps to some more remote ancestors, who were propably of a less improved type. And Mr. Cruickshank's herd had become so closely inbred to Champlon of England that
almost any Shorthorn blood outside his own would have been pretty much in the nature of a radical cross. Had he been 20 years younger, I am sure he would not have hesitater to take the nece stop, but 1 think no one wirl
shirking the risk of impairing the uniform type of hit herd, which it had been his life work to produce. Other breeders had the pull over him in this respect, for they were using his highly inbred young bulls upon cows of more mixed blood; therefore, even when they used
Cruickshank bulls in successive generations, they were further away than he was from the dangerous polut
where inbreeding begins to tell adversely upon the conwhere inbreeding begins to tell adversely upon the con-
stitution and fertility of a herd. It is a fact thet stitution and fertility of a herd. inbreeding is pursued to the extent of seriously injuring the constitution of a herr there to no more dangerous animal to use than a bull thus affected. It
is a mistake to suppose that because such an animal has a grand pedigree, and is come of famous ancestors, specimen himself. The chances are all the other way. The first bad effect of inbreeding is some loss of elze n successive generalions. Aiterwaras come impaired s the only bad effect which has resulted from inbreeding, an outside breeder may use $a$ bull from that thbred herd with perfect safety, provided he ts healthy,
vigorous, and of the proper type. Such a' bull ou vigorous, and of the proper type. Such a bull on
cows of mixed blood will produce stock of increased gize and vigor, while his inbreeding rules the type. But suppose an inbred Cruickshank bull is introduced into herd of cows as strongly inbred, say, on Booths or thing but uniformity of type. Certainly increased vigor and fertility may be expected, but the type, as the re ult of a conflict between two strong strains of blood will probably be the reverse of uniform. This explain taking fresh blood into them, much as they may need t . Where inbreeding is accompanied by a concurren test of muscular vigor and power, it will not be so harmful as where that allel to natural selection. We certainly want to get vigor of constitution, and this explains the immense im portance which breeders rightly attach to the girth be hind the shoulder, and the thickness through the hear placid disposition, inclined to get fat, and earrying large proportion of flesh on its roasts, rumps and rounds, qualifications exactly the reverse of those whic a state of nature would be advantageous to
Nature allows a certain amount of latitude in the ob servances of her laws, but the limit of deviation is soo reached, especially if it be in a direction where it unchecked by any lest
Mr. Marr went on to deal in a thoroughly practical way with the work of the breeder: "The various breed societies, by their studbooks and their herdbooks, etc., have accomplished excellent work in the way of im breeders with a knowledge of thesmaterial they have got o work upon. Some breeders have used this knowlgeneramy admitted that the improvement of the weveral
breeds has been greatest and most rapld during the
early years of the existence of thelr rapective breed societies. Atter a time there has come a diffloulty th maintaining the same rate of progress-perhaps it may
even be a dificulty in maintaining the former standard of excellence. When this latter stage in the history of breed is reached, it would seem to be the duty they be wide enough to carry a structure which is con tituually increasing in height, with no corresponding or gree registration tends to diminish the foundation area of a breed. A particular family becomes dominant, and everyone runs after it. Sires from this family, althoug showing very moderate tnditvidual merit, are used by al
breedera who can get hold of them. Weedy females o the fashlonable blood are largely bought up, while other strains are neglected. This discourages breeders who have not got the fancy blood. They see their good attle sloded weeds. They neglect registation, ashion consequence is that much useful material gradually consequence of the herdbook, and the basement thus tends
drops out of the mater o become narrower as time goes on. The word 'pure has a great rascina mates patrons used to sneer at The Hoot horns, and call them 'crosses,' although they were duly registered in the same herdbook as their linebred amilies. They could see nothing good outside their own foundations, and they continued to build on then
until the deterioration of their cattle was patent even o themselves. Meanwhile, Scotch breeders were pursuing a wiser course, and working upon methods mor in accordance with natur's laws; instead of studying
chiefy how to breed cattle whose pedigree would make hieffy how to breed cattle whose pedigree would mak
hem interesting reading from a genealocical poinal view, they were breeding cattle which carried thelr pedigreess on their backs. . The results of this wise volicy is now manifested by the world-wide demand
which has sprung up for Scotch Shorthorns. act that they are now being successfully used to nvigorate the old linebred families throughout Eng land. But there lies a danger ahead of Scotch Short horn breeders which should be guarded against. he tascination of the word 'pure' is the danger. We
know that pure Crutckshank, or 'pure Scotch' grees are highly prized almost everywhere, and the danger is that, in trying to keep them too pure, Scoteh should be taken of a timely intusion of fresh blood wherever it is needed, making sure it is accompanied by outstanding merit in the indrviduals by which it is in

## Oxygen Still Effective.

Drs. Tennant and Barnes, of London, Ont,, who
ere the first veterinarians in America to test and were the first veterinarians in America to test and
adopt the oxygen treatment for milk fever, to wh'ch ateention had been called by the "Farnl
er's Adrocate," report continued success in prac tice. Since January 1 st of the present year they
have treated sixteen additional cases, without ${ }_{a}$ have treated sixteen additional cases, without a
single failure, and have heard of many, gratifying results from other practitioners who have adopted
American agricultural and stock parers have
been singularly slow in placing before their reat been singularly slow in placing before their read-
ers this simple and sure remedy, repeatedly reers this simple and sure remedy, repeatedy re
forred to in the "Farmer's Advocate "for more than a year. Even so generally up-to-date a paper as the Jersey Bulletin quite recently
? hastens, , to accuasint its readers with the discovery of the air treatment. when some seventy cases had been reported by this paper as having been successfully treated by one firm in ontario
within the past twelve months, and with only within the
one failure.

## Keeping Sheep Pays

Not many farms are either so large or so small
that a flock of sheep cannot be profitaly kept that a fock of sheep cannot be profitably kept on
them. $\begin{aligned} & \text { The size of the flock can readily be gauted to } \\ & \text { suit the conditlons of the farm. }\end{aligned}$ If many cattle and horses are kept, a small fock of sheep may be kept; sheep may be maintained. Sheep require less labor in
ther their care than any other farm stock. Fed twice or
three times a day in winter, and bedded once a month with no dally tying or untying, and no cleaning of tabies, and allowed the run of the shortest pasture on
the farm in summer, they thrive whille clearing the of weeds, and declare double dividends annually, in the
form of a feece and lamb from each of the ewe fock form of a flece and lamb from each

## or semi-annual returns if

narketed each year. It requires less feed to produce can be tattened tin less time than cattle food. Sheep return more fertility
portion to the food consumed, than any other tarry stock. If, as is somettmes clalmed, it does not pay to
raise sheep on hlyhprpriced land, then it does not pay oo more, but rather luess, flound for pound, to raise sheep as compared with thw other stock. Fat lambs
always find ready sale at goull os. and choice lambs re generally scarce at high prifec and inmose are kept
hea not much mones and cannot afford to go into cat He can found a flock at very li
fely misa the feed they consume.
scarcely miss the feed they consume. It is not nece sary that he go into pure-breds; a few good grade ewe
may be bought cheaply, and a pure-bred ram lamb bred ram of the same breed, selling the wethers and old ewes, and retaining the young ewes, he will in fow years have a uniform flock, showing all the char acter and quality of pure-breds. To the man, howeven
whose fancy leads him to prefer a registered flock, the whose fancy leads him to prefer a registered fock, foundation stock at moderate prices, and the indications all point to rlsing values in

Success in Pig Raising
reatment of the youngsters in liviving on the the early start without overdoing it. Many a promising litte has been ruined by too heavy feeding of the sow the heating of her the milk and starving the young pigs, if it does not resuld in the death of the sow as well. Light feeding of days, swill and bran is sufficient for the first few duced until the should be observed that both sow and litter have mberty to run out upon the ground, and in a grass old. If possible, from the time the pigs are a weel and the sow liberally fed the pigs becoed nead bed are liable to contract thumps from too much blood and to droop and die, while if they escape this trouble meat is established, and their flesh will instead of lean quality that brings the best price wir not be of he hs to please the critical buyer. When the plgs are weaned, which should be done at about elght weeks the pen separg led warm sweet milk for a few days, in run of a clover alfolfa or vetches sesture how the their pen if possible, which will hasten their growt continup them thrifty, the supply of milk or whey being or a mixtûre long as is practicable, with a little shorts added, the object belng to geound oats or barley thrifty from the first. For a later pasture, rape may prepared any time in the first weeks of July on wellhealthful and fattening forage, lasting ight weeks make months. When the pigs are about six months late fal about six weeks before they are to be marketed, thei grain or meal rations should be increased to nearly th full capacity of the animals, in order to fit them for the market, care being taken to avoid getting them
too fat or too heavy for the packer's use, pigs weigh ing from 200 to 220 pounds alive being the most de sirable, but they must not be thin, and their skin Wrinkled, but rather full of flesh, and having a full and

## The Embargo.

The Staffordshire (Eng.) Chamber of Agriculthe proposal for the alteration of the Diseaseard Animals Act of 1896 so as to admit the importa jurious to agriculture cas a whole likely to be inhat the advantage to a section would be quite nadequate to compensate for the risk of import ion of disease.
The old bog
Britain what of the risk of importing into service so long thot exist in Canada has done something new. Why not give the real reason at

## In the Same Boat

Alex. T. Reed, Simcoe, Ont.-" We are like all
the others: once a subscriber to your most ex the others: once a subscriber to your most ex-
cellent paper, we cannot get along without it.Richard Bafley, Hastings, Ont.- " Your paper It." Sidney Ecker, Wentworth, Ont.-" I like the Sarney Fcker, Wentworth, Ont.-" I like the Andrew Weir, Bruce Co., Ont-" Would like to av that we are well pleased with the 'Farmer's
Advocate and Home Magazine,' and think it an
soceral readers who have lately sent in Adivions to be answered in the lifarmer's which reguires the full name and rule address to be riven in every insto. 0 . We can pay no attention to anonymous communications or enquiries. Please read and observe the rules of the "Questions and Answers" Department.

## FARM.

Problems of the Soil.-X.: The Cereal Class in the Rotation.
The grains, wheat, oats, barley, etc., are an absolut hecessity to the world, as food for both man and beast and their production must always be a very important
branch of agriculture. We may pass from an exclusively grain-growing stage to one of tive-stock production, still we must continue to produce grain, both for sale and for purposes of stock-feeding. A careful study of the needs of this class of plants, and their effect on th This class, which we shall call, for conventence, the cereal class, comprises all the white-strawed grainswheat, oats, etc.-and the grasses-timothy, orchar grass, etc. These plants, while they differ greatl tics of food requirements which place them by then selves, and make them different from all other plants. These plants are generally held to be hard on the lan and to greatly decrease fertirity by their growth to grain for long periods, without the introduction other crops, its fertility has been greatly decreased hears this out. Yet it is a fact that these plants $r$ any other class of plants. A glance ot the followin table, copied from a recent English work on agricul ture, will show this. This table shows, in pounds, the crops:

Amount in pounds of | Nitro- Phosphoric |  |
| :---: | :---: |
| gen. | $\begin{array}{c}\text { Pot. } \\ \text { Acid. } \\ \text { ash }\end{array}$ |


Swede turnips (14 tons)............ $70 \quad 16.9 \quad 63.3$
Peas (30 bushels) ……............... $\quad 77 \quad 22.8 \quad 24.8$
$\begin{array}{llll}\text { Red clover hay ( } 2 \text { tons) }) . . . . . . . . ~ & 102 & 24.9 & 83.4\end{array}$
$\begin{array}{ccccc}\text { Wheat (30 bushels) } & \text { ……........... } 33 & 16.0 & 9.8 \\ \text { Straw } & 15 & 4.7 & 25.9\end{array}$



| irass |  |  |  |
| :--- | :--- | :--- | :--- |
| hay | $(1+$ tons $)$ |  | 49 |

Here it will be seen that the cereal class is the
lightest feeder, and that the other two classes, roots and the legumes, remove very much greater quantitie devoted to grain-growing hecomes poor while, by grow ing all three classes of crops, fertility may be main ained and even increased?
The most obvious reason is that grain is generally
sold off the farm, while other crops are fed and the manure returned, ind it may be arged that and th ertility could be maintained, even under constant graingrowing, were all the grain fed on the farm. But the acts do not bear this out. The decrease in fertility hone the less sure. There are other and greater easons why these plants, light feeders though they are reduce fertility. In the first place, these plants are all hall ther plants, such as the clovers, can reach far whil into the subsoil for their supplies of food, and actually low to the surface fertility, by bringing food from be etc., left in the land by them is small, not enough to keep up the supply of humus in the soil, and lacking
this, the soil loses fits physical condition, and its fer tility is reduced in this way. Here again the clovers differ from the grains, by leaving an abundant supply
of roots to increase the humus of the soil. These two of roots to increase the humus of the soil. These two
facts have an important effect in reducing soll fertllity under constant grain-growing. The most importan fact of all is, however, this: These plants draw their supplies of nitrogen entirely from the soil, and they
lack the ability to use this element, even when it is present in the soil, unless it is in a very available form. the supply of nitrogen in the soil. Where this is abundant and available they will, as a general rule,
grow well, but where it is deficient they will not grow. Sell, but wince their supply is takent they will not do soil, their continued growth reduces the supply, and the crop is lessened. Here again the legumes, clover and
peas, differ from them by their power to assimilate this element in large quantities, and to take it from the air. class is, then: (1) To exhaust the surface the cereal soil; (2) to reduce the humus of the soil; and (3) to
reduce the supply of soil-nitrogen to an amount insuffias a rule, are found in land which conditions which, voted to grain-growing Yet it must not be supposed that these plants are
more exhausting on the soil than other cropg. Where they are grown continuously for long periods they do
certainly exhaust it, but they can be grown in this way certanly exhaust it, hut they can be grown in this way
for inger periods than other plants. A second crop of roots, without llberal manuring, would ind the land
too poor for it. A second crop of clover, unless a
dressing of land-plaster is given, to set free potash in dressing of land-plaster is given, to set free potash in
the soil, is rarely a success, because the first crop has the soil, is rarely a success, because the first crop has
too greatly reduced the available potash in the soil. So too greatly reduced the avalable potash in the soil. So class may be used to increase it, and are a necessity in
every rotation. Continuous growth of roots and clover every rotation. Continuous growth of roots and clover
would as surely ruin a farm as continuous growth of would as surely ruin a farm as continuous growth of
grain. A grain crop, because it is a light feeder on grain. A grain crop, because it is a light feeder on
potash and phosphoric acid, which, as we pave said in previous articles, is af ways being set free in the soil, allows these elements to accumulate for the use of the peas or clover which fo.
pares the soil for them.
reare main points to remember in connection with the cereal class are these: (1) That their continuous growth robs the surface layers of soil, reduces humus,
and lessens the supply of available nitrogen ; (2) that and lessens the supply of available nitrogen; ( 2 ) that
for successful growth they must have abundance of for successiul growth they must have abundance of
avallable nitrogen; (8) that so far from being an evil in the rotation, they are a benefit, in preparing the land for the legumes, peas and clover. These crops are not harmful to that the land is often continuously croped with them. Used properly in a rotation, they not only supply a very valuable crop, but contribute to fertility by preparing the land for other crops.

## Once More the Hired Man.

To the Editor "Farmer's Advocate":
Sir,-I have read with interest the letters written Sir,-1 have read with interest the letters written well be applied the quotation in this week's columns, viz:: "It is with narrow-souled people as with nar-row-necked bottles, the less they have in them, the more noise they make pouring it out." I should like to put "Sandy" one or two questions : 1 st, -Hues he ever hired a first-class Fnglishman, who has, required a
horse and buggy kept for him? 2nd, - Has he ever horse and buggy kept for him? 2nd, -Has he ever
paid a man $\$ 240$ per year, with boand and washing ? paid a man $\$ 240$ per year,
As from the letter, $I$ should take him to be one of the As from the letcer,
class of Canadian farmers who is often to be found,
that hires a man at about $\$ 14$ a month, and expects thim hires a man at about the way to do everything as well as the man next door that is getting $\$ 20$ or $\$ 22$ per month. 1 have only had 15 months' Canadian experience, but
have already come across this type. I agree entirely have already come across this type. I agree entirely
with "Alick," and I believe most of the best class of farmers do also, that the best way to treat the ob-
jectionable (though necessary) hired man, is to get him jectionable (though necessary) hired man, is to get him
by right treatment to take an interest in his work, by right treatment to take an interest in his work,
and not as a mere machine for getting rid of his supand not as a mere machine for getting rid of his sup-
ply of rusty bacon and doing his rough work for him. ply of rusty bacon and doing his rough work for him,
I am, of course, taking it for granted that "Sandy"
is alluding to is alluding to Englishmen in his letter, and I can assure him that when I came to this country first the
farmer I hired with informed me that he preferred farmer I hired with informed me that he preferred
Englishmen to Canadians, as they could be trusted not to skulk directly he left them to themselves.
AN ENGLISHMAN.

## A Ditching Machine.

To the Edior "Farmer's Advocate" :
Sir,-I have read with interest the different Sir,- -1 have read with interest the different
articles on drainage, but is it not time we had got at something with which we can make better
use of our time in opening ditches than with the use of our time in opening ditches than with the
spade and shovel? Are there not some of your readers who have had experience with Sawyer \&
Massey's road-graders for ditching? In parts of Huron County, I understand they have had good success with them, and that three or four teams and three men will open out about two hundred
rods of ditch in ten hours. This, of course, aprods of ditch in ten hours. This, of course, ap-
plies only to fields already cleared and free from stumps and stones, where fences can be opened, so as to save turning too much with the grader. should like to hear from farmers who have had experience with g
Wellington Co.

[^2]IHE FARMEFS ADVOCATE.
Buying or Renting a Farm. A correspondent asks the question: Which is
more profitable, to buy or to rent a farm ? nothing, perhaps, is there greater a differm? in
tween the practices which prevail in the old Country and those which obtain here than in the matter of farmers owning or renting the farms on
which they make their living. Over the water the great majority of farmers are but tenants, the land being owned by comparatively few people, who are mostly rich and not under the
necessity of working for a living The farmers in spite of the loud grumbling of the past few years, are many of them well-to-do also, but no matter what they may be prepared to pay for laid, and the land hunger is very keen, it is next
to impossible to buy any Land is not for sale. to impossible to buy any Land is not for sale.
In this country conditions are about exactly the reverse. Some farms are rented certainly, but they are the exception. By far the greater proportion of farms are owned, at least nominally,
by those who live on them and work them, and a reference to newspaper advertisements will show that there are many more chances of buying a farm than of renting one. There are some renters, however, and their number is on the increase,
we think, and likely in the future to increase still we think, and likely in the future to increase still
more. Years ago, when raising grain to sell was more. Years ago, when raising grain to sell was owner should object to renting his place. The depreciation in value which migh't be expected
through soil impoverishment would sometimes


Archer's Last.
Shorthorn bull call, eight months old.F Bred by John Dryden \& Son, Brooklin, Ont.,
amounl to as much as the rent received. The ather common practice of a renter was to skin
 stock-ralsing and dairying has comel condilitons have improved, at least from the owner's standpoint, for he may have his farm returned to him as fertile as before ; while a tenant, if his term is not too short, can also do better by keeping the Old Col ing conditions would be an advantage all round.
The question which comes up to a young
farmer just starting for himself is whether it is farmer just starting for or buy. Opinions differ. Some say, unhesitatingly, buy-buy, if it is only a few acres; while others, are just as positive tha himself, probably, than on any other factor, but a to which course is wisest would depend a good deal on the amount of his captal The following reasons can he has in his family. The fentiñ: First.-Less capital is required to start farming as a renter than as an owner. In buying a larm a certain amount, down before a mortgage will be accepted for the balance. A tenant needs but his stock and implements. Second.-As a rule, we think the rental of a farm is less than the interest of bur chase money, which gives so much or any reason a farmer does not much more than make ends meet, he is, if a renter, free from the awful loa
which a heavy unpaid mortgage becomes, and by which a heavy unpaid mortgage many a man has become utterly discouraged and unfitted to do his best. Fourth.-A man
will find out by a term on a rented farm how he is likely to do in business for himself, how he might expect to get along if he bought a farm
of his own. Instances are not wanting of men who after renting a farm for a few years have afterwards bought it, and later have added farm

On the other side, it may be said that a tenant lacks incentive to improve a place he does not own. Tree-planting, building, even draining,
soil enrichment, and such like, except as they soil enrichment, and such like, except as they
give immediate returns, are not for him. He has no settled abiding place. He may have to move when it is not convenient, and every move in-
volves loss-" three are as bad as a fire." He volves loss-"'three are as bad as a fire." He has not the subtle but solid delight which comes
from ownership of even a small part of the earth's surface.
In favor of buying a place in preference to
renting, besides what has been incidentally hinted at, it may be mentioned that an owner naturally against little the future. He is on the watch time to come, but which may easily be prevented or mended. He sees also little things that may
be attended to, which bye and bye bring increased be attended to, which bye and bye bring increased
returns. Buildings are kept up, fences are rereturns. Buildings are kept up, fences are renew methods adopted, etc., etc. Tres plas, there is
constant improvement and, consequently, greater constant improvement and, consequently, greater
proßits and growing value. Again, a tenant. pronts and growing value. Again, a tenant,
especially if he does not aspire to be anything
else, is apt to be
content with a content with a hand-to-mouth ex-
istence; while one who has bought a
farm is not likely to rest content until it is at least
all paid for, thus being led to make being led to make
better provision for
his family or for belter provily or for
his fame. We re-
old age. old age. We re-
member an old
man-a carpenter member an old
man-a carpenter
by trade saying
that if he had stuck to his had trade
all his life he all his life he
would have had nothing over in in
nond, but having, with very lit-
tle capital, bought a farm, which he managed to he for, and nd which
increased in greatly increased in
value, in his old
age he was comage he was com-
fortably" well off.
There is nothing There is nothing
safer in which to
invest labor and invest labor and
savings than in
farm property. Further, there is the delightful home
feeling, the a tach-
ment to a place, have lived, but which has long been your own, for the improvement of which you have la

## Road Improvement.

The meeting of the National and International Goodroads Association, recently held in St. Louis, was the largest ever held in America in the interests of roa mprovement. The information collected, the advic given, and the work done at the conference, will have a decidedly stimulating. effect upon the agitation which has been going on in America sor the a new interest and spread information on the questio of roadmaking and road administration that will hav wood ellect upon those
work of bettering our roads.
That the question of the improvement of our ordiThat the question of the improvement of our oral
nary roads is attracting genuine interest, can no more nary roabseds and that the subject is recelving much more careful thought and study than in the past can-
not be questioned. It is an unfortunate thing that in not be questioned. It is an unfortunate thing that
past years the question of rural roadmaking was looked upon as being of very commonplace importance in many sections,
ent work.
ent work. to a large extent, and people are now devoting more time to the preparation of proper plans and specifications for such work, and are employing more competent
persons to direct the operation and placing in the hands of the people suitable materlal and proper implements of the people suitable materlial and proper implements
with which to do the work efficiently and economically. About 300 delegates were present, and the meetings
continued throughout the week. Nearly every phase of
-0 question was takeen up, and handled by men having - apecial lnowledge of the particular branc
oome by very large delegations. Delegates were chiofy municlpal councillors, and many very distingulshed dratesmes by prominent, practical business men and ex-
dresser perts were delivered, including one by Hon. Jas. Wilson, U. S. Secretary of A gricillure, on "Good roads necees ary to agricitural development," and one by Mr. A.
W. Compbell, Highways Commissioner, Ontarlo, on the
 sect of improved roadmaking was thoroughly discussed.
The question of State and national aid for the im . The question of State and national aid for the im-
 neoting: that thths hoould be true indicates very clearnow being taken up, and points to the conclusion that as in older countries, taxation for road purposes must bo of a universal character, and supports the contenthe roand, and, consequen tly, should contribute his por tion of the taxes.
Senator Latimer, member of the ©. S. Congress,
who is aponsor for a measure now betore the National who is aponsor for a measure now before the Nationa
Goverment, tor the appropriation of $\$ 24,000,000$, to be divivided up among the different States, was prosent. and weat very fully tnto the question or warathon tor road purposes, and cleared up many of the objections
Which wert being popularly urged against national tax ation wor such purposes.
the convention is a summery of the resolutions which convention adopted:
Resolved,-That this convention heartily endorses the proposition for Federal ald for the construction of pub-
iic roads in the United States, to the extent of one href of the fose of same, and that each delegate in this Convention pledges himelf to use all honorable means
to secure the support of our respective delegations is Congress of this princtple.
Reasolved, -That, believing as we do that the road question is a paramount one now before the American people, we urge that in the electon or aip oic ofircers
they be required to stand for Federal aid for road improvement generamy
Resolved, That this convention unanimously endorses the proposition of county, state, and national $+1$
Rosolved,-That wo heartily approve and commend the work of the office of Pubhc Road Inquiries of the
United States Department of Agriculture in collecting United States Department of Agriculture in collecting
and disseminating information, and co-operating with and disseminating information, and co-operating wirk
communities in object lesson and experimental work. Wo beliove that its practice of road-building has been far-reaching, and will prove of immeasurable value to the poople. The demand for better methods and greater
light is tinststent in general throughout the country. light is inslstent in general throughout the country.
While the offce has accomplished a prodigtous amount While the offce has accomphished a prodigtous amount
with the limited means available, it has not been able to respond to more than an insignificant fraction of the
demand. It is a kind of kaowledge that all people demand. It is a stind of koowledge that all people
went, and it is preeminently proper that the Government, and it is proold furnish it.
We, therefore, earesestly demand, on behalf of the
peoplo, that Congress at its next session approbriate people, that Congress at its next session appropriate
not leas than one humdred and fifty thousand dollars for thls office, in order that it may be able at once to facrease its tacllities for its vitally important educa-Resolved,-That we recommend that the office of Public Road Inquiries should be advanced to a bureau, to bo known as the sureau of Yubic Roads, and that an increase in the appropration of money applicable
should bo made commensurate with the demand of this office.
Resolved,-That it is the sense of this convention that upon public roads and hlghways and employed in petition with honest labor, as at present. not in comResolved, -That the delegates appointed to the con-
vention be appointed by this convention, a committee Vention be appointed by th1s convention, a committee
to organize in the different States and Territories, not to organize in the different States and Territores, not the primary organizations to this body

## Best on the Market

W. H. Gregg, Huron Co., Ont.-" We think the 'Farmer's Advocate' the best paner on the mar-
ket for the practical farmer, and wish you great success in your new venture, viz: weekly." great
John Kirkconnell, Huron, Ont.-"I think the
Farmer's Advocate and Home Magazine, has Farmer's Advocate and Home Magazine, has
greatly improved since it became a weekly, and that it should be read by every farmer." J. W. Tilson, Algoma, Ont.-"I I like the
'Farmer, Advocate . much better since it comes
weekly, and would not do without it twie the
money. It is full of valuable information."

Jas. Bebee, Wright, Que.-"I am much pleased
with the change in the . Farmer's Advocate,' and with the change in the
wtsh you every success.

Thos. P. McDonald, Bruce, Ont.--"I should not like to miss a single issue of the 'Farmer's Advo-
cate and Home Magazlne. The nights are long

## Henhouse Plan.

A correspondent sidy : "I would like some suggeshouse for the biliding of neat and practical Discuasing housees Prof W. R. Graham, Guelph, sa One of the best houses for our conditions is illustrated by Mr. L. H. Baldwin's (Toronto) plan. His henhouse is a krame bullding, 72 .feet long and 10 feet deep, and is divided equally into .four scratching -heds and four
 large stones. The end sill resto on stone, and the sill running the length of the bullding rests on top of the
end sill. The tudding used is $2 \times 4$ hemlock. The top end sill. The studding used is $2 \times 4$ hemlock. The top and a baseboard to fastened on the inside of the sill, and the foor of the henhouse is filled with sand to the
top of the baseboard. The building is banked an top of the baseboard. The building is banked up on
the outstde to the same level. The north wall is four the outside to the same highe from the top of the sill, and the south wall teet high irom the top of the sill, and the soud wall is
seven feet high. In the north wall, the studing is placed at each corner of the henhouse proper, and an additional one in each center; also at the corner of eech scrateching-shed, and an additional one in the cen-
ter. In the south wall the atudding is placed in the same way, excepting the one in the center of the henhouse, which is placed so as to accommodate the win-
dowe At the east end an extra stud stands as a doorpost, and oane the teest end in the center. On the outside of the studding and rafters is used the most ordinary lumber, running the boards lengthwise. The ende of the building, the north wall and the south tronts of the hennoos proper ahe-ply roofing material. A scantling 2x4 reaches from the north sill to the south sill at the base of each division between scratching pens and henhouses proper, and between the heahouses. The house is made of rough lumber on the seratchings-shed side, with a lining of tar felt nailed on the interior of these boords, and battened cloosly with laths, to make the Joints of the tar felt complete. The division wall bet ween the henhouses proper is made of 7 -inch tongued
and grooved floorting, and the other interior walls of the henhousee proper-that is, the walls against the scratching-zheds and the north and south walls-are
lined with 7 -mch tongued lined with $I$-hich tongued and grooved dressed mate-
riel. rial. The celling is also completed in the same way
But before the second layer of tar felt was placed between the sheeting and ratters, so that there is a dead-air space. The lerge doors between the scratching-sheds and the hen-
houses proper are about three tinches thick, made
 riel, with a space of one inch between, and lined with
tar felt on the inside of each thickese tar felt on the inside of each thickness. These doors
are raised a foot above the level of the sills, and in this space near the south wall is cut small doors interior arrang ements
The plan provides for two houses together, and a
scratching-shed on opposite sides. The dropoing-board is three feet wide, and 18 inches above the levpel ooard top of the sills. Two roosts, each $2 \times 3$ inches, are
placed on the flat side, fastened together by a cross placed on the flat side, fastened together by a cross
strip, which is hinged to the north wall. Two legs support the roosts on the outer side. The roosts being hinged, they can be lifted up and fastened to the roof,
so as to leave a clear space when so as to leave a clear space when making the daily
cleaning. The roosts come short of each pen by about two inches. Three nests are allowed to each pen. These are each 18 inches square, having the ends solid. the north wam, rest on the sand, and can be taken out for cleaning. The back of the nest is made in two pieces. The upper part is fastened to the lower board
by spring hinges, which enables one in collecting to reach the nest conveniently, and the spring hinges
make the top board fy back into place make the top board fly back into place. Against the
inside division, between the henhouses proper, a 12 Inch board extends on the level of the dropping-board
to within 12 inches of the door, board is fastened to the end of this and runs up to
the ceining. To correspond with it, a board is placed against the opposite wall, and a cotton curtain, on a two-fnch roller, is fastened to the ceiling. When this
curtain is down it comes to the bottom of the two last-mentloned upright boards-that is. to about two
linches below the level of the dropping-board. pose of this curtain is to protect the fowls on very cold
nights. Mr. Baldwin has found that eary to use . Baldwin has found that it is not necesif the number is reduced, and the thermometer drops to
the neighborhood of zero, it is well to let it down. In winter about 18 hens are kept in each pen.

The windows in front, south side, of the henhouses proper are each three feet wide and two feet six inches
high, containing six panes, $10 \times 12$ inches each. The windows are placed high in the front wall, and slide
to the right and left. The windows being placed high ap, the sun in winter, when it is low in the heavens. between the henhouses proper, which is also a foot
above the level of the sills, is a simple door of

front of each scratching shed is divided in two by the center studding, on each side or whin inere are cotton one foot of the top of the sill; and, when down, close upon top of a rainboard which slopes to the outside, so that rain beating against the cotton screen is car-
ried outside, and this keeps the interior dry. Thess ried outeide, an the the reot, and are there caught by
screens swing up to hooks from the rafters. The front of each scratchingshed is closed with two-inch mesh wire netting. (One inch mesh shound have been used to keep out the sparrows, which now get in and run off with a lot of grain.),
An eavestrough runs the length of the building, distributing the water east and west. Drinking fountains are placed on the end of the board that runs out from the dropping-board, and on the wall opposite thereto e boxes grit and oy. shells are hun

SANITARY PRECAUTIONS.
heds is filled with sand to the level of the scratcling sill: and on top of this a plentiful supply of loose straw is kept, to encourage the birds to scratch and
thereby get exercise. In August the straw cleaned out ; and the sand, so far as it appears to be
soiled, say to a depth of four or five inches soiled, say to a depth of four or five Inches, is all
taken out, and fresh sand put in its place visable to do this in August, so that the sand may be come perfectly dry before the winter sets in. No straw is placed on top of the sand until the time comes to henhouse proper are open every day. Of course, whe the weather is stormy or bitterly cold, they are onen only for 15 minutes or half an hour in the middle of the day. When the sun is shining brightly they may the henhouses, dries up all moisture, and ventilates place clean and sweet. The screen in front of the scratching-shed is let down only on very cold days, and keep the weather is cold and stormy. the idea being to
 This method of housing poultry keeps the stock in the most vigorous health. From the practical experi-
ence of six years use of the building. Mr. Baldwin's opinion is that it is well adapted in this section of the country for keeplng breeding stock and maintaining it
in most vigorous health. which is the foundation success. Mr. Baldwin believes that many who have adopted the scratchin 5 -shed henhouse have adjusted win dows to the front of the scratching-shed in place of the
screen: and this milght be an advantage, especially in sections af this might be an advantage, especially in

## GARDEN AND ORCHARD.

## Cover Crops for Orchards.

The main u are : To hold the roots of the tres. and thus protect table matter to plow under in the spring for the purpose of obtaining humus and to prevent leaching of plant food made available for gro summer. The best general practice about the middle of July the soil until near or made most of their growth and do rot much moisture, and then seeding down io ecmmon
or Manmoth Red clover, sown broadcast at the vetch of twelve pounds per acre, or with hairy acre. Sown at that time, the forty pounds per make a good cover by autumn. At the Central Experimental Farm hairy vetch was sown on June 18th, 1903, in drills twenty-eight inches apart, at
the rate of twenty pounds per acre the rate of twenty pounds per acre. These re-
ceived two cultivatims, and by the end of the first week of August the plants were meeting becase, a better stand may be obtained, and by are getting estabture is conserved while the plants sown in drills in this way were found quite sufficient to make a good cover. There was prac-
tically no injury from mice where cover crops were used, as their depredations were prevented veneers. No fruit-prower bhould paper or wood cover crop, as a fine hearing orchard in bare soil
might be destroyed which would had there been a cover crop. The seed for
the cover crop should be sown, if possible, when the ground is moist, as in the summer the seed
will germinate quickly if there is the seed is sown, the land should be rolled, as this
will bring the moisture to the the seed and hasten germination. It is important to get growth started in good time, as there is August, which prevents germination and spoils
the prospect for a good cover cron. In districts possible in the spring, and in some parts plants
is no loss of moisture through them in spring
Leguminous plants are, on the whole, hest cover crops, as they take nitrogen from the ai but often oats and rape are used to good advantage.

Arrangements are being made for the Provincia Fruit, Flower and Honey Show in Toronto during the Church Street. The fruit and honey exhibits will be shown in one rink, while the flowers will be on view in
the second. A display of machinery and implements used in the cultivation of fruit and flowers will be made prizes offered for the floral section amount to over $\$ 1$ 200. The fruit-growers will expend over $\$ 1,000$ their part of the show. The Fruit-growers' Associatio
will hold its annual convention, as will also the Bee will hold its annual convention, as will also the Be keepers' Association. There will also be a meeting of
delegates from the Horticultural Societies in the Prov ince, as a result of which it is expected that a Provin
cial Horticultural Association will be formed. The cial Horticutural Association will be formed. The
management of this show will be largely in the hands management of this show will be largely in the hand
of H . B. Cowan, of Toronto, Provincial Superintendent of Agricultural Societies, to whom any requests for
information may be sent. information may be sent.

## DAIRY

## An English Agricultural College.

 Reading College and British Dairy Institute-Excellent (Special correspondence to the "Farmer's Advocate.' On my way to London, I stopped off at Reading, erksire County, to inspect the Agricultural Depart an interesting visit. To one who had received the major portion of instruction at Ontario's most excel lent institution, who has also spent six years as student and instructor in two of the best agricultura colleges in the United States, nothing could be more interesting than an insight of the methods and work of an English institutionEngland has something in the neighborhood of a
dozen colleges or institutes where agriculture dozen colleges or institutes where agriculture and its
kindred branches are demonstrated in a more or les scientific and practical manner to the youth. All of these colleges or institutes are, in a measure, supported and directed by the Royal Agricultural Society. The remainder of the support is derived from tuiltion fees, and fees obtained for work of a scientific nature. Th
majority of the colleges have been established in con nection with some college or university, or, at least, afliliated with one in some way. In this respect many them are not very much different from the so-called gricultural colleges connected with the State Univer-
Bities of several of the States of the Union. The institution at Reeding was founded in June 1892, with the co-operation of the House of Christ Ohurch, Oxford University. It was incorporated in
1896 . By euthority of decrees of the University o 896. By guthority of decrees of the University of
oxford, a joint committee, cousisting of representative of the Oxford delegacy for extension teaching, of University College, Reading, and the Royal Agricultural Society, supervises the instruction and examinations in agriculture, horticulture
diplomas and certifcates.
The college at Reading is affiliated with the Univer sity of Oxford, and consists of five distinct. depart wents-letters and
science, music, fine arts, agriculture nd horticulture. Most fortunate for the college, and Institute is located in part of the same building. Thi affords excellent facilities for practical instruction along airy lines. In all the departments of the institution tudents. something in the neighborhood of one thousan students. Only a small portion of these, Bome on
hundred and fifty, are enrolled in the Department o griculture. In this connection I shall confine mysel Brithe work of the Department of Agrioulture and the British Dairy Institute, which might quite properly be
termed a division of the Agricultural Department. This work is new and meager, when compared with simila hranches in the leading American insttutions. At the present time, three quite distinct lines are being drawn rirst, the division of practical agriculture, which in
ludes live stock, field crops and grasses ; second, th division of dairying, which includes the manufacture o butter and cheese, the care of milk, and the feeding breeding and care and management of the dairy herd ng, feeding and marketing of the various classes of pountry. is under the supervision of Professor John Percival
whose college title is that of Agriculture and Agriculural Botany. He is a very pleasing gentleman, and as a very fine knowledge of botany. The more prac Tohn O. Peet. He seems to be in sympathy with his work, thus should do much good. These two gentlemen teach the botany, field crops, and the livestock Work. Up to the present time they have been very
much handicapped in their work, due to the fact that the college did not have enough land at its command
they have just purchased a new farm. This will provide grounds for field crop experiments, also an oppor-
tunity of carrying some live stock, a privilege which they have in the past been denied.
First, a courses are open to the agricultural student. First, a course leading to the degree of Bachelor of
Science. This requires three Science. This requires three years of regular pre
scribed college work, largely taken from the science course. There is hardly enough agriculture in this course to distinguish it from a science course. This
course is intended for those who hope to become teach ers in agriculture, specialist farmers, or estate agents.


Jersey Cow, Blue Bell, Imp.

ture, awarded at the end of a two years' course in scientific and practical agriculture, and designed for students who hereafter may become tenant farmers, farn managers and land agents, landlords, or be engaged in
occupations connected with agriculture. occupations connected with agriculture.
The third course feads to a certificat
awarded at the end of a six-months course (October to March) in strictly agricultural study. It is designed and who course. very attractive in in these courses would not prove appearances it is not American institution. From all crop work is very largely studied and taught from botanical point of view. The really practical applica har, which is so attractive and eminently useful, is in a large measure lost sight of. Perhaps the lack of a college farm might in a large measure be responsible
for the existing conditions. In this respect this college for the existing conditions. In this respect this college
is in very much the same position as were many of the American colleges a few years ago; in fact, some of them are not very far removed from it at present. They apparently believed that a course in agriculture should
consist of those branches of study which are furthest consist of those branches of study which are furthest
removed from the actual life and environments of the boy who comes from the farm. Perhaps it may indicate learnedness on the part of the Professor, to as
ound the youth with terms which he has never heard of belore, but history shows that it will not attract him as would a course where science and practice are always ombined

LIVE-STOCK DEPARTMENT
It is impossible to teach the judging, breeding, feedfrom lectures, no matter how well they may be pref pared. It is absolutely necessary to have the animals before the class. They must examine the animals, pass their judgment upon them, and receive corrections whem
necessary. Continuous work of this kind will make a stock judge. No other method, in which the animal is omitted, is of any use. In the study of the breeds the same thing is true. The, student who has seen a Tam-
worth pig will always remember the same as being red in color, having a long nose, and other characteristics of the breed. He will be able ever afterwarde to pick one out at a moment's glance. No teacher, without
the animal, could stamp so firmly upon the mind of the student the characteristics of the breed. Then, too the the study of animal breeding, animals are necessary to illustrate such terms as masculinity, feminitty, and other
terms which are indispensable. It is also imposelble terms which are indispensable. It is also tmpossible
for a man who has not or is not in direct charge of the feeding and management of ansmals, to teach these subjects in a useful manner. He may have a knowledge of the chemistry of feedstuffe, but that fer just one of the necessary things with which the teacher must be
perfectly familiar. The cost of feedstuffs, their palataperfectly familiar. The cost of feedstuffs, their palata
bility, and the different methods of preparation aed combination can be best learned in the feed lot. THE POULTRY DEPARTMENT
is under the management of Mr. Edward Brown, Secredon, who is ably assisted by Organization Society, London, who is ably assisted by his two sons, Messrs, $\mathbf{E}$.
T. and W. Brown. The work in this department is of T. and W. Brown. The work in this department is o
different nature to that just described. It is taken up from both the theoretical aika practical side. It is most useful work, and will be of great value to the poultry interests of England. The practical work is given on the college poultry farm, which is located a
few miles from the college. It is the intention of the in charge to have students desiring work remain during the vacation periods, and spend the entire time on the farm. Some four dififent courses are offered in this department. The irst, a ten-weeks course, given from
April 21 te to June 29th, at the college and on the farm; second, a five-weeks' course, at the college and on the farm; the third, a twelve-weeks' course, the first
seven of which must be taken at the farm, and the last seven of which must be taken at the farm, and the last
five at the college ; the fourth course provides for practical work oonly for periods of three or mix months, to be taken at the college poultry farm, by special ar
rangement as vacancies occur. Examinations are hold. rangement as vacancies occur. Eximinations ano held
and certificates granted for courses one and two. Th and certificates granted for courses one and two. Th manner the study of the breeds, the feeding and management of the diflerent classes of poultry, the houses, egg production, preparation and dressing of fowls for
market, poultry diseases, and almosin every detall market, poultry diseases, and almost every detall of
the work which would in any way be helpful to poultry raisers. True it is that some of our American colleges have given attention to poultry; the great majority, for some reason or other, have neglected this
valuable enterprise. It would mean millions of dollari to our people if each and every Province to Canada,


British Dairymaids in Training at the British Dairy Institute, Reading, England.
poultry school
Reading college.
Lest, Great dairy institute
Last, but by no means least in importance, is the
British Dairy Institute and its work. In the line of work which it aims to do, few if any colleges on the American continent are doing as thorough and beneficial
work. It is very ably managed by Professor : Miles work. It is very ably managed istants. The work is confined strictly to the farm or home dairy. No fac-
tory work is attempted. Those desiring such training
 tory after they have learned the home dairy methods. agricultural work. During the past year over elghty students were enrolled in all of the courses: These students come from practically all parts of the globe, except the North American continent. They come More than two-thirds of the students enrolled at the present time are ladies. They are always in the ma-
jority, so I am informed. Some are proparing for jority, so I am informed. Some are preparing for
teachers, others for farm dairy work, and others for deiry farming. Tipe cheese interests receive the most ettention; only a small amount of butter being made. What is manufactured is prepared in a most attractive form for market purposes-cheese of all shapes, makes
and names are manufactured. The building was erected a few years ago at a cost of some thirty-five thousand a dollars when equipped. It is very convenient, and kept
scrupulously clean and sweet. The curling-rooms for scrupulously clean and sweet. The curling-rooms for
cheose are well ventilated, and are constructed so as to control the temperature. Laboratories are equipped for the teaching of dairy chemistry and bacteriology. The churns, separators and testers are all run by hand.
This is done for the purpose of giving the student an This is done for the purpose of giving the student an
abundance of actual practical work in the running and manipulating of all kinds of mechinery. The Babcock tester is not used, being considered too complicated, also requiring too much labor and time. The Guber test
is the favorite, and several simple-looking English inis the favorite, and several simple-looking English in-
ventions are used to some extent. In separators, the De Laval and Shiarples are both present, and very popular. Tahing the work in all of its details, it is doubtful if there is a better equipped and managed home
dairy school anywhere in the world. Some co-operative dairy school anywhere in the worad. Some conts arms. To a certain extent co-operation work has been conducted on farms by the other departments. Reading, England, June 9th, 1904

## Western Fair Dairy Building

 We are pleased to note that the London, Ont.,City Council have taken a more reasonable view of the question of extending the lease of the western Fair grounds, which at one time threatered to block the erection of the proposed new $\$ 10,000$
dairy hall this year. They have agreed to an dairy hall this year. They have agreed to a the present lease, making eighteen years in all. Plans have been adopted and tenders called for the erection of the structure. It will resemble in $\stackrel{\text { some respects the Toronto dairy pavilion. }}{=\text { EVENTS OF IHE WORLD. }}$
Dr. George F. Lee, of Philadelphia, claims to have discovered an electro-chemical process by which radium
may be manufactured for less than $\$ 500,000$ per pound. may be manufactured for less than $\$ 500,000$
The present value is $\$ 16,000,000$ per pound.
The death list of the disaster to the General Slocum,
which was burned near North Brother Island, New which was burned near North Brother Island, New
York City, is now placed at over 1,000 , but many more may have met death. The captain of the vessel is severely censured for

A despatch from the British camp near Gyangtse says that a lama recently captured and brought into $7,000 \mathrm{men}$, armed with 600 rifles of European pattern, and 30 jingals. It was also learned from the lama
that all the jongs on the road to Lhassa are held by strong forces, and that the apparent intention of the Thibetans is to appeal to China for help.

June 16th General Bobrikoff, Governor-General of Finland, was shot and mortally wounded when enterassassin, who was a son of Senator Schaumann, immediately committed suicide. The motive of the murder
is believed to be objection to the Russification of Finand, of which Bobrikoff was a promoter. Upon hearing of the death of the latter, the Governor-General of Warsaw was at once striken with paralysis, and will Wars
die.

The unprecedented demands of the bandit Raisuli in The unprecodented demands of the banis and Varley
regard to ransom for Messrs. Perdicarise
have been conceded by the Sultan. These demands are as follows: (1) Dismissal of the Governor of Tangier (2) The disbanding of the northern army. (3) The payment of $£ 11,000$ ransom. (4) The release of al
tribesmen in prison. (5) The arrest and imprisonmen of certain Government shieks. (6) The absolute juris-
diction of four Moorish Provinces. It is expected that

THE FARMERS ADVOCATE
negotiations for the
be speedily concluded
The approach of the rainy season will probably have the effect of hastening decisive events in Manchuria Although Kuropatkin is steadily withdrawing his out avolding conflict as long as possible, it seems evident that a great battle cannot be long dolyed, re repeat rumors of an engagement at Simen Ting on June 23 ra in which, so it is stated, the Russians lost erardin men. Whether this be true or not, it is it comes, will be in favor of the Japanese. Generals Kuroki and Oku are steadily closing in on Kuropatkin with forces which when combined will total 150,000 men. They heve, moreover, a great number of guns, having am-
none so far in the war, and are so situated that am munition can be forwarded them according as required, while the Russians are under the disadvantage of being thousands of miles away from their base of supplie presant, but it evident that his force has not yet recovered from the blow at Telissu. From the town Port Arthur there is no news. On June 28 rd , how ever, an engagement took place outside the harbor be
tween a number of the Russian vessels and Admiral Togo's main fleet As usual during the war, the score was in favor of the Japanese, who succeeded in sinking one battleship and in seriously disabling another and a cruiser. The series of disesters is said to be completely disheartening the Russians.

## NOTES AND NEWS

A serious outbreak of smallpox is reported from the district, New Ontario
It is stated that Sir Thomas Lipton will challenge The Britioh Admiralty hes sent to Candian partment of Agriculture forms of tender for supplies of beef for the Government institutions at Malta.

The total number of bodies recovered since the Gen-
Slocum disaster at New York now amounts 883.

Hon. Edward Blake, M.P., has been nominated to represent the Irish party on the new Privileges Committee, of which Premier Balfour is chairma
One thousand five hundred immigrants, of whom
neerey three hundred were Russian Jews and Arabians, nee ify three hundred were Russian
arrived at Quebec on June 17 th.
At Medicine Hat recently a tremendous flow of natural gas was struck, at the depth of one thousand rate of a million and a half cubic feet per day

Armies of the tent caterpillar have been ravaging the vicinity of Seattle, and Tacoma, and are threatening
the gardens of Vancouver and other parts of Southern British Columbia.
A unique convention, that of the Ontario Deaf Mutes
Association, met in Hamilton, Ont., on June 18th. All the business was transacted by signs, the hymns also being sung by signs during the Sunday sessions.
It has been found out that tramps have been sleepthey have stolen some of the furnishings and sold them to second-hand dealers. It is feared that some articles infected with smallpox may have been thus disposed of By the clauses of the Preferential and Reciprocal
Trade Act, recently adopted by the Parliament of New Zealand, Canadian industry will be benefited in several turers are given an advantage of 48 cents a barrel over American manufacturers.

The citizens of Brandon, determined to avoid the de vastation wrought by floods in the future, have passed a removal of the pumping station to higher ground, and the extension of the waterworks plant.
will this year expend $\$ 150,000$ in public works
The new Minister of Defence of the Australian Commonwealth favors the abolition of the General Offcer
Commanding, the post held by General Sir E. T. II Hutton, and the appointment of an Australian officer, the proposal now before the Dominion Parliament for the command of the Canadian militia.

Mulch the Trees.

## Trees planted in spots where regular cultivation can

 Trees planted in spots where regular cultivation canor rotted manure before the scorching summer sun of July and August is afforded an opportunity of absorb-ing the moisture from the soil. It takes but little time to supply a mulch, and it may mean the life of grass may be had. Even a few pieces of short boards or stones placed around the root of the tree in the
absence of anything else will be a benefit absence of anything else will be a benefit. A mulch
around young trees should extend nearly two feet from the trunk, and when properly a attended to the trees are
able to get benefit of rain for a long time after it has able to get benefit of rain for a long time after it has
fallen, and make rapld growth, instead of, perhaps, dying.

## Notes from Ottawe

## HE SEED BIL

The clause in the new Seed Control Act relating penalties is considered by seed men and others expressed himself willing to consider a modification the law in connection with the fines. As the bill stands a fine, not exceeding five dollars, and not less than one dollar, for the first offence, and betweences, is imposed on twenty-ave the law. The amounts would be levied for each parcel from which seed would be taken. There would, consequently, be an enormous fine on a shipper who sent out a carload of seed that the bill specily to requirements. than ninety-nine out of one hundred shall be the kind represented, has been criticised as too severe by members of the Commons. The bill states that of these,
ninety seeds must be germinable, which is also regarded ninety seeds must be germinan.
as too stringent a regulation.

COST OF EXPERTMENTAL FARMS
In addition to the main estimate of $\$ 100,000$. Experimental Farms, there will be a supplementary vote of $\$ 10,000$ asked. On account of increases in salaries to $\$ 100,000$ compared with $\$ 90,000$ last year The appropriation last year did not cover all the outlay, and some of the expenses have to be paid out of the per cent. grant. Wages are being increased twenty-ive throughout the country At Nappan and Oftawa ordinary labor will now be from $\$ 1.40$ to $\$ 1.60$ a day
The rates will be slightly higher on the Western branch

The Chief of the Seed Division.
Mr. G. H. Clark, Chief of the Seed Division, De-
partment of Agriculture, Ottawa, whose portrait appears on page 914 of this issue, was born and brought
up on his father's farm, in the County of Brant five miles east of Brantford, Ont. He received his early education in the country school and Brantford high school. For three years he had charge of the home
farm. He entered the Agriculturar College at Guelph in February, 1896, and graduated in May, 1898. Dur ing his graduating year he took up some special in
vestigation work, re the milling qualities of Ontario fal wheat, the results of which were published in the "Farmer's Advocate" in 1900. In June, 1898, he
was appointed to the experimental staff, as assistant to was appointed to the experimental staff, as assistant to
Mr. Zavitz, with whom he remained until April, when he was given direct charge of the work in connection with the Macdonald Seed-grain Competition with headquarters at Ottawa. He was appointed Chie being to establish a well-equipped seed-testing station in Ottawa, after the plan of the one at Washington, D C., and those in various European countries. Th Work that has been done in the seed laboratory ha
been directed largely from an educational standpoint Information obtained from laboratory work was place before the people as promptly as possible, through the and the of the Provincial Farmers' Institute systems the time during the summer months studying the hal ditions and needs of agriculture in all parts of Canada. He visited nearly all of the men who are making a
specialty of seed-growing as members of the Canadian

## Maritime Stock Breeders Meet.

## ssociation was held in Amherst, N.S., on June 14th

After the reading of the minutes, reasurer's and President's reports, the management of ided to employ a stenographer and have a full repor of the doings and addresses of the Winter Fair pub artments of agriculture It was ahso the several de pile and print in pamphlet form the past minutes of the to when desired. The date of holding the winter Fair was discussed Some claimed that the show should be held a week or have time to ripen before the Christmas trade ; others
while regretting the difielt discourteous to clash with the considered it unwise an on ourteous to clash with the Guelph Fair. It was of December, beginning Monday, December 12th. sidered, and a resolution passed recommending the estal shment of one record for each breed of horses, cattl The following directors Dominion.
Scotia: W. W. Black, Amherst; C. A. Archibald, Trura New Brunswick: Col. H. M. Campbell, Sussex ; M. H Rogers. For P. E. Island, Rev. Father Burk
The officers elected were as follows: President,
B. Elderkin. Vice-Pres. for N. S., C. A. Archibal Har N. B., Col. H. M. Campbell: for P. E.
Hazard. $\quad$ Managing Director of Winter Fai
Flderkin.
Sec-Treas Miss Sadie Elderkin
and time stated when sald room can be used by each of the three divisions, Frult, Aplary and Doultry and the
Preelident be requested to consult with the Presidents president be requested to consult with the President.
of each division and arrange a programme, so that
 progress in one part of the building, and a live etock
meeting in another part. All of the Maritime Prov
tinces were represented at at the meeting, and the business Inces were represented at the meeting, and the business
was conducted with despatch and the leest of good-feel$\stackrel{\text { mas. }}{\substack{\text { ing. }}}$

## Sale of Clydesdale Fillies

## 

 illee on Thursay last, when Graham Bros, Clarenont, sold firty newly-Imported females at Grand's Re mont, sold arty new. The sule was well advertised, a
poaitory, Toronto.
largo crowd was present, and the stock was personally large crowd was. present, and the stock was personally
selected by Mr. Tom Grahan, and is just hio class
 ward 22 yearlings, the three-year-olds and two-year-olds being all bred to hilghly reputed sites before being
shipped The filles were brought into the ring in ather low condition of flesh after thelr voyage, but
hero was no lack of quality and promise in the whole lot. Everything about the sale was satisfactory in the highest degree, except the prices. Ruyers had no hesi-
tation in bidding up to what such stock without regislation in bidding up to what such stock without regis
try ordinarily sells for, but there semed to be a lack try ordinarity sels of the value of pedigree, and the dimculty of securing registered femples of such high qual Ity. Messrs. Graham, however, realize the value of the
introduction of high quality breeding mares, and are Introduction of high quality breeding mares, and are
satisfed that subsequent efforts to stock the farms with satisfed that subsequent eiforts to stock the farms with
brood maraes will meet with more liberal response. The britial ventures in this line, however, are rather a se
ind vere strain on one's inanaes, but it it ithoped that it is
but the beginning of a more proftable trade. The rices for the entire lot averaged $\$ 315$, and the mounted to $\$ 15,755$. Donna Romia, a Woodend two-year-old, got the highest bid, $\$ 700$, from Hodg kingon \& Tisdate, and Baron's Lily, a Baron's Pride
two-mer-old, made second at $\$ 675$, Irom C. R. Bennett, of Ruselton, Ont. The others found buyers at figure
as far below this as $\$ 175$. Below is the full list mdividualls, their sires, purchasers, and prices
three-year-olds.
I.ady Campbell, by willam the Conqueror: G. W. $\$ 38$

Lady Roxburgh, by Prince of Roxburgh
Lady MacRaith, by MacRaith; Wm. Edwards, Bal$\stackrel{\text { sam, }}{\text { sady }}$
解 Anderson, by Up-to-Time ; W. A. Dynis, Lady Lively, by Graphicic A. Q. Derrick, Cots ${ }^{335}$ Charming Lady, by The Charming Prince; G. w. ${ }^{260}$ ady Sceptre, TWO-YEAR-OLDS
Tady Sceptre, by Woodend Gartly : Hodgkinson ${ }^{\text {\& }}$ Tisdale, Beaverton, Ont. Golden Queen, by Gold Mine;
Veronica, by Woodend Gartly; F. Fowler ..... Lady Phillips, by Peerless; w. A. Bradshaw, Ux Bridge, Ont. Man Laron's Pride; C. R. Bennett
 ${ }^{\text {Ton }}$ mont, Ont. by Concord; Nelson Wagg, Clare ${ }^{225}$
 Uxbrige, Ont. .e.l.
Lady Nellie, by Peerless ; Wm. Parrott, Columbus, Donna roma, by Woodend Gartly; Hodgkinson \& Tisdale
Lady alentine, by Up-to-Time ; G. W. Fowler, Sus-
sex Jean crawtord, by King Crawford ; John MceBride, Dorothea, by Up-to-Time: ou. Sorby, Guelph, Ont
Lady Crosbie, by Gallant Burnhead ; John Palmer Bichmond Hill, Ont.
Black Beauty, by Pride of Blacon; Geo. W. Fow Maid of Airieland, by Woodend Gartly ; R. Wilkin, Trinket, by Ornament ; J. M. Gardhouse. ......... ${ }^{425}$
Miss Roumanta, by Gallant Burnhead ; G. W. Fow-
 Jean IV. hy Woodend Gartly ; R. Davies
 Miss Hood, by King of the Roses : Nelson Wayg.
Drommere Princess, by Peerless ; F. M. Chapman,


Rosie, by King of the Roses; Thos. Mickleson,
Bradford, Ont. Qvely Fashion, by Fickle Fashion: L. Jotminston, $\$ 220$
Brougham, Ont. 205 Lenora, by Elator; W. G. Barnes, Giern River,
Ont.
May Fration May Fashion, by Fickle Fashi
Bessie, by King of the Roses Lady Murray, by
Markham, Ont
Lady Fashion, by Fickle Fashien : Net Lady Palmer, by King of the Roses; N. Burk hatder, Cherrywood, Ont. .............................. Lady Peelless, by Peerless; A. Aitchison, Guel ${ }_{j}$ h 215
Rosarene, by King of the Roses ; G. W. Fowler. Border Jess, by Border Mac; W. H. Banks, Picker-
ing Lady Irving, by Baron Briton ; A. Park, Hereward 390

The Railway Commission Hears Farmers' Case
The Railway Commission last week entered upon an
enquiry into the question of discrimination in freight enquiry into the question of discrimination in freight
rates on roads running through Ontario carrying freight rates on roads running through ontario carrying freight
from or to points in this Province. This is really the
most inportant and difficult task the commission has most important and diffcult task the commission has
yet undertaken, to regulate freight rates. yet undertaken, to regulate freight rates. Specific com
plaints were prepared by the different farmers' organizaInstances of discrimination which the commission was appointed to adjust were given at the first session of o commission in Toronto by D. A. Gordon, President of which are : The rate from Detroit to Montreal is $23 \frac{1}{2}$ cents, but
the rate from Wallaceburg, 30 miles shorter, is 25 cents. The rate from Gas City, Indiana, 553 miles, to ronto, is $17 \frac{1}{2}$ cents. The rate from Chicago to Toronto, about 500 milles, is 25 cents; from Pittsburg
to Hamilton, 341 miles; Toronto, 380 miles; Berlin to Hamilton, 341 miles; Toronto, 380 miles; Berlin,
374 miles-all 18 cents ; whereas the rate from Wallace374 miles-all 18 cents; whereas the rate from Wallace
burg to Toronto, 199 miles, is 18 cents, and to burg to Toronto, The complaints of the farmers, fruit-growers and
cattle dealers were presented by Mr. W. D. Gregory, cattle dealers were presented by Mr. W. D. Gregory,
barrister, Toronto ; W. F. Bunting, President of the Fruit-growers' Assoclation ; E. D. Smith, Winona : B J. Graham, Belleville, an apple shipper; J. Locki Wilson, President Farmers' Association, and E. Snell president Dominion Cattle-dealers' Association. The complaints of the fruit-growers, as presented by Mr.
Bunting, covered most of the grievances of the shippers of farm produce. The case was unusually well put by Mr. Bunting, who was afterwards congratulated by the commission for his concise arguments and clea quests of the fruit-growers are as follows: quests 1 st. - That fresh fruit mixed in baskets be changed in classification from class one to class three for less
than a carload, and from class three to class five for than a carload, and from class three to class five for
carload lots. This from Niagara to Montreal would be a reduction from 44 cents to 33 cents per
pounds on less than carloads, and on carloads from 33 cents to 22 cents per hundred pounds, or a reduction from $\$ 66$ to $\$ 44$ per car. From Niagara to Winnipeg
it would be a reduction from $\$ 1.25$ to 82 cents $\begin{array}{lll}\text { hundred pounds on less than carloads, and from } & 82\end{array}$ cents to 53 cents per hundred pounds on ear lots. The reduction to Winnipeg would be $\$ 10.60$ per ton by carload, or half a cent per pound. The average cost of
production is from one cent to one and a half cents per
$\qquad$
2nd.-That apples and pears in boxes and barrels be put in the same class.
3rd.- -That the minimum for carload of fresh fruit be not raised over 20,000 pounds. It frequently happened that owing to the scarcity of cars they were
obliged to load much more, and the fruit suffered from want of ventilation and crowding.
4th.-That a reduction be made in the cost of
icing, more particularly to Winnipeg. There is now a flat rate of $\$ 16$ per car for Icing to Winnipeg, whereas formerly the actual rate was from $\$ 3$ to $\$ 7$, according to quantity. Mr. Bunting thought that it was intended that the flat rate of $\$ 16$ should include the
initial icing, to which the companies would not agree. Mr. Bunting, in conclusion, wished that someone more ycompetent than himself had been chosen to represent
 apologies or excuses. He had rarely heard a matter
presented more clearly, more tersely, more modestly,
and with finer spirit. It was a pleasure for the comand with finer spirit. It was a pleasure for the com-
mission to listen to the presentation of the case. mission to listen to the presentation of the case.
Mr. E. D. Smith, who ships extensively, followed
Mr. Bunting. and laid before the commission additional Mr. Bunting, and laid berore the commints and requests for redress. Many cases of stow transportation and lack of equipment were cited, but the greatest grievance of the speaker was the mov-
ing of small lots of fruit, with whtch there seemed to The railway officials followed the farmers' representatives before the commission, and while acknowl-
edging a few faults in detail, claimed that the service edging a few faults in detail, claimed that the service
in general is quite satisfactory and reasonable. They
asked for time to prepare a specific reply to apecific asked for time to prepare a specific reply to specific
charges. When this is done the farmers' representa-
ves will be given an opportunity to reply, and the earances it looks as if the commission would give some edress to the shippers of produce, but it is important that they move quickly, as the season of small fruit
hipping is already upon us.

Pointer for the Dominion Department of Agriculture. A pressing need of the western portion of the
Northwest Territories, and the upper mainland of British Columbia, is the want of experimental farms or stations. In the Territories, as people lving there know, the experimental farm at Indian Head is located at the eastern portion of ar N.-W. T., hundreds of miles from the vast andions are experienced, and although the work is in capable hands at Indian Head, we do
not think the superintendent there would claim that the results of his experiments are capable of
being made use of as fully as is desirable in the Allerta section of the Territories. What applies in the case of Alberta, applies equally in the case latter case, a less extensive establishment would O. Any person who has travelled the Coast. its agriculture, will know that the varieties of ruit suited to the Okanagan are different to those the climate is dry and irrigatian is depended upon largely ; in the latter, the precipitation is quite heavy, and as the Coast Province is destined, we believe, to be the locality in which,
in the immediate future, the fruit required by Western Canada will be largely grown, it is no more than justice that the Dominion Department Agriculture should establish an experimental early date. Some years ago, the cry arose that there was need for another experimental farm in Manitoba. The Agricultural College farm will meet that need. In Minnesota, sub-stations have een started, and in a country of such large ex-
ent as the Canadian West, three experimental farms are only half enough. The others that should be establishod milght be termed sub-stations. The name would not necessarily affect the quality tion in the districts mentioned, a population that is investing its all, in time, money and work, warrants the establishment by the Government of wo or three branch experimental farms without
delay. The Minister of Agriculture would do well to give this important and urgent matter his prompt and careful attention, for even if the poople's elected representatives overlook this great eed, is no excuse for the Department, which is supposed to get its information as to the
needs of the country from outside, and more reneeds of the country from outside,
liable sources than the politiclans.

## Some Coal-tar Dips Undergo a Scientific

 Test.The Oklahoma Experiment Station Veterinarian and acteriologist, Dr. L. L. Lewis, reports in a bulletin eal-tar gation Several dips were tested, incluing Chloro-naptholeum and Zenoleum. The resisting power \& the germs of the following diseases, hog cholera, swine plague, pus, hay fever and anthrax, was tested by the use of the dips mentioned above. The following summary of the bulletin: cent. solution, they were effective disinfectants in laboratory experiments, but in practical experiments at least a two per cent. solution should be used, They were equally good, and in some of the tests proved to
be better disinfectants than carbolic acid when used in the same strength. The coal-tar dips are non-poisonous, and are not irritating to the skin, or when used in wounds. As compared to carbolic acid, they were to use. The coal-tar preparations tested are not only good disinfectants, but are also good deodorizers." The Oklahoma Station may be in an out-of-the-way par

## Quick Dishwashing.

Have ready a large deep dishpan. Pile plates, saucers, etc., neatly according to size Then pour boiling water over and through them, letting them stand for a few minutes while attenaing to some other matters. Then take out as you will find, nearly everything adhering and, them. Then wash in lukewarm water with nice soap, and rinse with boiling water. Done in this manner, dish-washing is no drudgery, but nearly water into kettles, spiders, dripping pans, etc. add a little ammonia, and they are nearly clean at once. This method also saves the hands, and swollen and having as parboiled becoming red and certainly have a right to do so. Try it and am sure you will not regret it.-[Farm and Home

## MARKETS

The market situation has been quiet the past week Grains of all kinds are steady; live hogs remain un changed; catile receipts are far are too high in the dealers complain that butchers are too high inmp, whil butter remains steady

## LIVE STOCK.

## Toronto Prices.

Exporters-Choice, well-finished, heavy
5.50 to $\$ 5.65$ per cwt.; medium, $\$ 5$ to $\$ 5.25$.
export cwt.

Butchers'-Picked lots of butchers', equal in quality best exporters, 1,100 to $1,200 \mathrm{lbs}$. each, $\$ 5$ to $\$ 5.25$; loeds of good, $\$ 4.45$ to $\$ 4.80$; medium, $\$ 4.2$ to $\$ 4.40$; common, $\$ 3$
2.90 to $\$ 3.25$ per cwt .

Feeders-Short-keep feeders, 1,100 to 1,200 pounds man, 55 to 85.25 ; those weighing from
Stockers-Choice yearling calves, $\$ 3.75$ to $\$ 4.10$ poorer grades and off-colors, $\$ 2.75$ to $\$ 3.50$, according to quality. each. Sheep-Export ewes, $\$ 3.85$ to $\$ 4.10$ c export bucks Sheep-E
so
to
Spring
Spring lambs-Prices range from $\$ 2.50$ to $\$ 4.25$ each.
Hoge-Straight loads, fed and girain and produce Toronto Whol
Wheat-There is a little more inquiry, and the mar et is steadier at 88c. for No. 2 red and white, wes and east. Goose is steady at 77c. for No. 2 east spring, 83 c . for No. 2 east. Manitoba wheat, 91 c . fo
90 c . for No. 1 northern, 87 c . for No. No. 1 hard, 90 c . for No. 1 northern, 87 c . for No.
northern, and 84c. for No. 3 northern, at Georgian Bay porthern, and 6c. more grinding in transit.
Flour-The market is steady. Cars of 90 per cent patents are quoted ait $\$ 3.66$ in buyers' baggs middl Manitobe flour is steady at $\$ 4.80$ for cars of Hun garian patents, $\$ 4.50$ for second patents, and $\$ 4.40$ fo gtrong bakerg', in car lots, bags included, on the track wille
Millfeed is steady at $\$ 16.50$ to $\$ 17.00$ for cars o shorts, and $\$ 15.00$ for bran in bulk, west or east Manitoba milleed: $\$ 19$ for cars of
for bran, sacks included, Toronto freights.
Barley.-41c. for No. 2, 39c. for No. 3 extra, and 37c. for No. 3, west or ea

Buckwheat-45c.
Rye- 57 c . to 56
Corn- -45 c . to 46 c . for Canada west. American 58c. for Wo. 2 yellow; 57 c . for No. 3 yeslow, and 56 c
for No. 3 mixed, in car lots on track. Toronto, for No. 3 mixed, in car lots on track, Toronto.
Oats-No. 1 white are quoted at $: 32 \mathrm{c}$. east, and No 2 White at 31c. west, 31 itc. east. Peas-61c. to 62c. for No. 2 west or east, and mill ing peas are worth 3c. more. Potatoes-Firm in tone, and quoted at a slight ad vance, 85 c . to 95 c . for cars on track here, and $\$ 1.05$ Baled Hay-Continues easy in tone at $\$ 8.50$ to $\$ 9$ per ton for car lots on track here.
Baled Straw-The market is fairly steady. Car lot on track here are quoted at $\$ 5$ to $\$ 5.50$ per ton.
Butter-Receipts are still large in all lines, while the demand is only for the better stock. Creamery, prints. demand is only for the botter stock. Creamery, pres.
17 e . to 18 e .; creemery, solide, 15 c . to 1 Bc ; dairy pound rolls, good to cholce, 11c. to 13 c .
Cheese-The markets at outside points continue easy in tone, but trade here has not yet been affected. Quoold large is still selling at 10 tc .

Trade in grain continues to be very quiet, and there

## Illustrations

 Jersey Cow, Blue Bell (imp.)............ 919
British Dairymaids in Training at the British Dairy Fnstitute, Reading, England
Endity editorial
Influence of Example
ricultur in the C........................913
ment ...... ... .......................... ${ }_{913}$
ment .......................................... HORSES
Raise Good Horses .......
The French Coach Horse
The French Coach Horse.
Dfetetic Disisuases of Horses

THE FARMERS ADVOCATE.
s no change in the condition of the market. Oats, No. \& stock, around 36 c . store; No. ${ }^{2}$ oats could probably be sold at 37c., as 38c. is being demanded. barley, 50 c .; No. 3 extra, 69 c ., and No. 2 rye, 62 c . barley, 50c.; No. 3 extra, act,. and for local account: fair demand for export. Manitoba patents, $\$ 4.90$ i
strong bakers', $\$ 4.60$; winter wheat patents, $\$ 4.80$ is strong bakers', $\$ 4.60 ;$ winter wheat patents, $\$ 4.80$ lo
$\$ 5$; straight rollers, $\$ 4.60$ to $\$ 4.70$; straight rolleis, in hags, $\$ 2.20$ to $\$ 2.25$.
Feed-Demand for bran dull. Manitoba bran, in
$\$ 18$; shorts, bags, $\$ 19$ per ton : Ontario bran, in Feed-Demand $\$ 18$ shorts, bags. $\$ 19$ per ton; Ontario bran, in bulk, $\$ 17$ to $\$ 18$; shorsaality.
thay per ton, as to quality. further decline, offerings
Hay-The market shows a heing too large for demand. No. $\mathbf{1}$, $\$ 10$ to $\$ 10.50$ pe on on track ; No. $\$ \$$ to $\$ 9.50$ $\$ 8$, and clover, $\$ 7$ to $\$ 7.50$.
Chese-The dottom seems to have dropped out of ere, and there is absolutely no rapidly accumulating from advices received over the cable. Ontario makes ould be easily secured lately at 7ic., townships a fc. and eastern at 7 fc . to 7 fc .
Butter-Local market exceedingly dum, and the ac tual position as regards quotations is purely nominal Finest cream
out buyers.


Activity.
Yearling bull. Recentlv, inpoprted from Abordeenshire


## Buffalo Markets

East Buffalo--Cattle-Prime steers, $\$ 6$ to $\$ 6.4$ Veals- $\$ 4.75$ to $\$ 8.00$
Hogs-Heavy, $\$ 5.55$ to $\$ 5.80$; mixed, $\$ 5.50$
$\$ 5.5$
Sheep and lamb-Lambs, $\$ 2$ to $\$ 7.50$; yearlings
$\$ 6.25$ to $\$ 6.50$; wethers, $\$ 5.25$ to $\$ 5.50$; ewes, $\$ 4$.
4.25 ; sheep, mixed. $\$ 2.50$ to $\$$

CONTENTS OF THIS ISSUE.
Stock Breeding Shorthorns ... Oxygen Still Fiffective.
Keeping Sheep Pays.
Success in Plig Raising. The Embargo
FARM
FARM. Crops for Orchards
roblems of the Soil.-X. :
Cereal Class in the Rotation
Once More the Hired Man .............. 916
914 A Ditching Machine 914 Agriculturists for Soutc................. 917

Road Improvement
Best on the Market.....
Henhouse Plan
Garden and orchard Fentish DAIRy An English Agricultural College
Western Fair Dairy Building Notes And NEWS. NOTES AND NEWS,
Mulch the Trees; Notes from Ottawa;
The Chief of the The Chief of the Seed Divis
Maritime Stock Breeders Meet

## Cheese Markets

Sherbrooke, Que., June 20.-Sales of cheese White ; butter, 18 jc . salcless, 17 sc . salt. 5,600 boxes were boarded, all colored. About 3 , i(i) were sold at 7 fc.
Picton, June 22.-1,030 boxes boarded, all colored Highest bid, 7 fc.; no sales.
Sales : 570 at $711-16 \mathrm{c} . ; 230$ ating, 960 cheese were boarded
$11-16 \mathrm{c}$.; 230 at 7 11-16c.; balance re
Woodstock, June 22.-At the cheese board to-11 2 factories olfiered 41 boxes. The hig
tc.; no sales. Sellers held out for 8c.
Brockville, June 23 .-Over 4,000 boxes of cheest were boarded, but none were sold. The price bid wa
Madoc, June 23.-1,330 boxes of cheese were board : 1,080 sold at $711-16 \mathrm{c}$.; balance unsold. Kingston, June 23,-1,428 boxes boarded, of which 880 were colored and 548 white; highest bid, 7 tc., hich price 150 were sold
fc.;' balance unsold.
Winchester, June 23.-372 colored and 1,410 white registered ; the price bid was 7 tc.; no sales on board. Vankleek Hill, June 23.-1,846 boxes of white an were sold at 7 tc. Perth, June 24,-2,470 cheese fwere boarded to-day
1855 white 615 colored. All sold ; ruling price, 7 to 1,855 white, 615 colored. All sold; ruling price, wht
Iroquois, June $24 .-1,189$ colored and 30 white cheese were boarded here to-day ; 7 cc . was the highes bid, two lots selling at this price. Other salesmen unloaded on curb at board price. Farnham, Que., June 24.-Eleven factories offered 8 ackages of butter an cheese. Butte old at 17 gc , and Napanee, June 24.-There were 1,855 cheese board ed; 7 ilc . Did; no sales. Ottawa, June 24.-There were 1,567 white and 836 olored cheese boarded at Ottawa to-day. Only 13 s said, were made on the curb slow. Some sales, Listowel, June 24 .-Twelve factories boarded 1,909
boxes, 1,659 white and 250 colored. . The best bid on the board was 7ic. afterwards 7ic. was best bid on factorymen wanted 4 cc . and 8c. It is said that a few lots were sold at 7 11-16c., but not much business was
done. Kempttille, June $24-1,663$ cheese offered, of which
1,528 were colored. Only one price bid, which was , 528 were colored. Only one price bid, which wa
tc. for both white and colored. At this figure nearly . 4 c. for both white and colored. At
all the cheese was sold on the board.

## Horse Markets.

 Business in working horses at Grand's Repositoryis not active. The next six weeks is the off season
for horse dealing, and Mr. Smith advises consignors to for horse dealing, and Mr. Smith advises consignors to withhold shipments. Last week the sale of Clydesdale fillies was the feature event. After this sale a few
food draft mares were sold at fair prices, A Suffolk Punch stallion, four-year-old, also changed hands at $\$ 275$. He looked to be a good " spec

Wools.
The market continues generally steady. Reccipts are still light, and quotations are unchanged at 1ic.

## Chicago Markets.

$\$ 6.50$; poar to medium, $\$ 4.50$ to $\$ 5.50$; stockers and Hogs-Mixed and butchers', $\$ 5.20$ to $\$ 5.40$; good to hoice, heavy, $\$ 5.35$ to $\$ 5.45$. Sheep-Good to choice wethers, $\$ 4.50$ to $\$ \Sigma$; fair t choice mixed, $\$ 3.75$ to $\$ 4.50$; spring lambs, $\$ 4$ to $\$ 7$.

## British Cattle Markets.

 London.-Canadian cattle are steady at 11 c . to 12 c c .per pound ; refrigerator beef, 9झc. to 10c. per pound.
Sheep, steady, 12 c . to 14 c . per pound ; yearlings, 15 c .

$$
\begin{gathered}
\text { Sale of Clydesdale Fillies; The Rail- } \\
\text { way Commission Hears Farmers' } \\
\text { Gase; Pointer for the Dominion De }
\end{gathered}
$$




The lily has an air,
And the snowdrop a grace,
And the sweet-pea a way,
And the heart'sease a a face
Yet there's nothing like the rose
When she blows."
When she blows." $\begin{aligned} & \text {-Christina G. Rossetti. }\end{aligned}$

## A Matchmaker

" Dear Brother Jim: This is a very
nice place, and I am enjoyin' it accordnice place, and I am enjoyin' it accord-
mgly. We are about a mile from the
village and the road is and and Misa Laura and I drive over twice a day. Miss Laura lets me drive sumtimes, but
she's afrade Ile get the horse-his name she's afrade lle get the horse-his name
is The Dook-out of the stile of driving that women prefur. And when I tititen up on the lines and The Dook strikes a,
lively clipp, she says ' Steddy. Tommy," and then I have to pull him in.... But sho is a nice girl notwithstandin'. She has
the prettiest brown hair, and such depe darke eyes, and such a sweet way of speekin'. And they have a beautiful miles around it. From my window. I can catch site of the lake thru a gap in
the hills. It's a very nice lake, tho not the hills. It's a very nice lake, tho not
depe enuff to drown me and Laura's
father owns it depe enuff to drown me-and Laura's
father owns it. They say he is pritty
rich. Mr. Rummidge-he sells books in the vilage and lets you borrow them for a vilage Creeses. It tells about Creeses
somewhere in a boot someshere in a book and he was the
richest man in the state, but I think he is dead now. I gess you must have heard ahout him. He was a hystorykal
carackter. I wish you was here, Brother
Jim. We'd have great times. Laura's most as good as a boy for havin' fun. Chare I heer her callin'. The Dook is aat the cassel gait. That's the way Laura talks. She's most as good as a $\begin{array}{ll}\text { play actor. } & \text { Aunt Emmyline says Laura's } \\ \text { romantick. } & \text { So I must close. Write just }\end{array}$ romantick. So I must close. Write just
as soon. as you hear from papa and
mamma. . James Thornton, rising young attor-
ney, smiled over this epistle and laid it ney, smiled over this epistle and laid it
away carefully in a pigeonhole of his
desk, whence it would be taken and indesk, whence it would be taken and in-
closed with his next letter to the absent parents across the sea.
There was a long gap
There was a long gap between brother Tom, aged twelve, and this bap had memingly drawn them closer together.
To brother Jim, brother Tom had never To brother Jim, brother Tom had never
seemed the aggravated nuisance that little brothers usually appear in the eyes of older brothers. Jim had looked pranks, and as for Tom-well, there were pranks, and as for Tom-well, there were
few heroes of childish romance that did not suggest his clever big brother. And
Tom had been loft in Jim's care whil Tom had been left in Jim's care while
the father and not overstrong mother
went went abroad for the latter's health. It
was a hot summer, and Tom was convalescing from a severe case of measles, and so Jim thought it wise to pack him
off to a little village that nestled in the woods of the upper Hudson, where he was sure to receive the best of care at
the home of a superannuated bookkeeper Che home of a superannuated bookkeeper
of the firm of which John Thornton was of the firm of which John Thornton was
the newly-admitted junior member. And
it was from Rookkeeper Barclay's home that Miss Laura Garman had fairly kidnapped him. True, she wrote a model
letter to Jim in which she requested lteter to Jim, in which she requested
the loan of his young kinsman, but be-
fore his answer could be received she had him installed at Greycrag, and in
position to add his petition to hers He was such a delightful bor, she
wrote, and he would make the hours at

Steycrag seem so much less lonesome
Saving for the presence of a maiden aunt
she was quite alone there, her father and she was quite alone there, her father and
mother having gone to California to take she was sure the altitude of Greycrag wa, quite certain to hasten the return of
Tommy's strength. She hoped this Tommy's strength. She hoped this was
not taking a liberty, but she had never seen a boy who charmed her quite as
much-perhaps tecause he reminded her of much-perhans lecause he reminded her of
a little brother who had passed away in his seventh year. wrote a qualified acceptance of this letter of invitation. She must promptly
return Tom when she tired of him. She return Tom when she tired of him. She
mustn't tolerate him if he proved to rude or unmanageable. And he would ask it as a particular favor if she would at once cominunicate to him any infrac-
tion of conduct of which Tom might be guilty. "Benduct of which Tom might be
" Bo very much the guilty. "Being so very much the
youngest of the family," he wrote, in
conclusion, "I Ifear that we fail to roconclusion, "I fear that we fail to re-
alize how thoroughly he is spoiled. No doubt you will find this out overy soon,
The moment you The moment you do, kindly rerturn him
to Mr. Barclay, to be left until called Miss Laura Garman briely acknowlto faithfully abide by all Its conditions, and thankling Jim for acceding to her re quest. So Brother Tom was ensconced in the Garman household, and, as his many his life. At leasit hale of each epistle was given up to this theme, while the other
half was devoted to the charms of Miso Laura. "She's just the one girl for you Jilm," he wrote in one of his dailly
gereeds, for Tom had become quile letter writer. It may have been brought about by his weakeaed health and possibly look the place of some more boyish occupation, but it was true that he had
Brother Jim hustling in the endeavor to beep up with his busy correspondent. YYou'd make a stunin couple. Don't think Ime foolin. Laura likes me so well
that Ime pretty sure she would like you that Ime pretty sure she would like you
too. On my account, of course. Cant you come down for a day or two?" And Brother Jim, greatly amused,
would thank Brother Tom for his kind would thank Brother Tom for his kind
wishes for his matrimonial wellare, and wishes for his matrimonial welfare, and
assure him that it would be quite impossible for him to get away just at
And. then one day the letter with the familiar handwriting was a little
bulkier than usual. When he opened the envelope a photograph dropped out. It was a portrait of an unusually pretty
girl.
Of course, this must be Laura
 portrait long and earnestly. Brother
'Tom wasn't so far wrong when he 'rom wasn't so far wrong when he
praised this gentle-faced girl. Brother praised this gentli-faced girl. Brother where he could use it as confirmation of
Brother Tom's praises, and then picked Brother Tom's praises, and then picked pool," Brother Tom began, " and cot
two-and ine two-and one cot me. It didn't hurt mutch and Laura tied it up with her
handkercheef. Ide know about bullhandkercheer. Ide know about bull-
heads horns next time. I am sending heads horns next time. She don't know it. I begged it from her yesterday. I
want you to get it framed up nico and charge it to pa. Then when she says, Tommy? Ile say Ime getin' it framed. Can't you come up and see a fellow,
Brother Jim? But Brother Jim eeemed in no hurry
to have the framing contract carried just where picture lingered on his desk whenever he chose to look up.
i. Dear "Dear Brother Tom," he wrote in re you. No doubt is you were a bullhead you would have done the same. I re member having some experience with
bullheads mysell, but there was charming yyoung but there was no to bind my wounds. Hy the way, that
portrait you sent to portrait you sent to have framed reflects redit on your taste. Miss Laura do-
serves all your praise.
She is a beautiful gitrl-and $Y$ am sure sure she is a as good
as she is beantiful," as she is beautiful."
Two days later Brother Tom's reply
was received. It was unusually bries but to the point. was unusually brief, " Brother Jim," he wrote. "I showed your letter to Miss Laura. My, how she blushed. Say, can't you come up next
week. There's going to be a bug church picnic. Come sure.".
Brother Jim scowed darkly chrother Jim scowled darkly. Then he his showing the letter. Whiat muet the girl think of the liberty he took? Still,
there wasn't anything really rude about it. But he must be more careful when Then he sent Tom a short note, in which he said it would be impossible, in him to attond the church picnic.
A few days later Brothior Tom in a somewhat melancholy tone. He
wasn't feeling quite so well, he guessed he missed his mother-and his farthers, too, and maybe he was homesick. He wanted
to see Brother Jim so much. But if to see Brother Jim so much. But if
Brother Jim couldn't come. would he send his photograph. It would be some comfort, anyway.
Brother Jim
Brother Jim was considerably alarmed
over this epistle. over this epistle. This precious young
brother mustn't have a relapse. That
would would never do. So he hastily wrote an enicouraging note to Brother Tom, in
which Brother Tom was advised to cheer which Brother Tom was advised to choer forwarded his photograph.
The answer came back promptly, and
it was again to the point
it "was again to the point. and she liked it. She made me mad tho when she said you was better looking than ufe. N. B.-I told her it flattered
you. Can't you come up Saturday ? you. Can't you come up Saturday? ".
Brother
Jim laughed again. Jeally, this scallawag of a youngster wasn't to be trusted with
anything. Still, if Miss Garman had anything. Still, if Miss Garman had
any sense of humor she must find him any sense of humor she must find him
amusing. Then he looked up suddenly at Miss Garman's portratt, and it it
seemed as if a smile was hovering seemed as if a smile was hovering about
the pretty mouth. And then came
letter from came mather Tom. disquieting "There's a fellow hanging round here
that I don't like," Tom wrote "it seems Miss Laura met him somewhere and he came to see her cos he found out her father was away. Thats the way it seems to me. He's got snaky eyes and
a little black mustash and he laffis a grate deal. I don't relly think that Miss Laura likes him much. But he's got such a way of smilin' and sayin'
soft things.
I'll bet he is no soft things. I'll bet he is no good. He
called me a cub the other day and Miss Laura dident like it. Im day and Miss
Im going to look after her the begt I kno how, but I
wisht I was a little older." wisht I was a little older."
Two days later another
letter reached later another disquieting ""That felow is comin" more than ever," Tom informed Jim. ."I think
there must be sumthing fassinating about
him there must be sumthing fassinating about
him, cause Miss Laura don't eeem able him, cause Miss Laura don't eeem able
to toll him he aln't wanted here. Ho lion
in a awful hurry, too. I guess he to afrade her father will come home unax-
peckted. Ile bet my life he is no good wish I could talle to sumboodidy good. there's no use speeking to Miss Laura'
Aunt. All she thinks about is heale Aunt. All she thinks about is house
keepin' and hired girls. .N. B.-He called ace a cub twice agane
The very next day brought the third is quieting letter
"We were out riding, to-day," Brother the little seat "behind and I geobun" in didn't kno how sharp my eirn fas Ita Annyway I heard a lot that he II inpose. Annyway I heard a lot that he aaid and
what do you think? He wants will Laura to run away and marry htm. You ought to have heard him beg her. Aln't a shaim? Sutch a nice girl and no-
ody to sho her what a misstake she to making. Annyway I know the felow is afrade of her father, cos he suid as mutch-and someboddy ought to find out he wants her to go." Brother Jim looked at the letber lons and earnestly and the frown on his handsome face deepened. Then he pullod a drawer.
They are watting for him at the phaeton and Brother Tom on the platAnd Brother And Brother Tom grabbed him and "This is my blg brother, Mise Laura." he cried with a tremor of pride, and Brother Jim found himself buindlod in
heside the pretty girls, while Brother heside the pretty girl, while Broth
Tom sat up on the little soat behind. We thave been expecting you so long , so anxiously -at least one of us
s." said the pretty girl with a quick has,", said the pretty girl with a quick
blush, "o that it seams quite imposiblo that you are really here-doenn't it, "Hy? "He looks real to me," replive tho sming Brother Tomo as the landed a shoulder.
And
how delightfully pleased this And how defightfully pleased this
pretty girl seemed I Was it an assumed and caut Ho him grinning. And what a charming witle feast they had, and what a delightful 1 lotle mistrees of the household the fair girl made. Brother Jim away from the Tom drem ence and took him for a stroll to the "Well ?" said Brother Topn, as they
trudged down the shadowy pathway between the trees. Well? " echoed Brother

Well ? " echoed Brother Jim.
"Very nice."

Drd I mece" make it too strong about her?" Is chis a confidential conversation? nquired Brother Jim with a shoirt laugh.
"It is," Brother Tom reptiod. And not a word to be repeated to any third party?
"Well, then," sald Brother Jim, "you Whereat Brother Tom landed a heavy blow from a puny fist in the midat of "Good old waistcoat
And then it was that Brother Jim. put a heavy hand on Brother 'Tom's shouider. "See here," he grufly said, "where io
that black-mustached fellow with the snaky eyes?"" "Oh, I just made him up," meld Brother Tom.
And Brother
And Brother Jim suddenly laughod-
w. R. Rose, in Cloveland Plata Donles.

Another Occasional Paper Containing Some Replies, to Ques-
tions Regarding Women's Share tions Regarding Women's Shar
in Industrial Development. As the writer of the Occasional Paper, asking for information from farmers' wives upon the above topics,
I desire to thenk those correspondente whose replies came addressed to myself, and some of which, being so direct and to the point, 1 insert,
partly as an invitition to others to
. have probably written to Mrs. Clare have probably writen to wrs.
Fittoribbon, the convener the
Sitand Standing Committee on Agriculture
and their facts and opinions will probably, on her return from the International Council at Berlin, be embodied in her report to the Na tional Council of Women of Canada ing at Winnipeg in September. Mrs. B., one correspondent, first says how glad she is that the Women's Institutes have united forces with the
National Council, and then comments National ounci, and the very real value of these Wo men's institutes to the home life upon our Canadian farms. "accomplished much good in this vicinity; indoed, there are homes they have completo ly revolutionized. We are starting a
library this summer in connection library this summer in connection with our Institute, and we would could be recommended for our per-
usal. We have found the ' Farmer's Advocate ' very helpful in suggesting topics for discussion." I will once more insert the questions previously own section may be the more clearly
understood the establishment dairies and cheese factories, egg and poultry collectors, affiected the pocket money of the farmers' wives an daughters particulariy the considerably : mor particularly The putter and cheese fac
lectors. The but tories not so much so, as the cheques
are generally drawn in the name of are generan of the house.' In this neighbormood I only know of one
case in which the cheque is drawn in case in which th
the wife's name." "On how of the twenty farms have the daulghters remained farms have the daughters remained
to share the labor with the mothers?"
Reply: "On eight; in ther remaining twelve there seems to
dearth of daughters, seven having no daughters, and five only one each."
3. " On how many of the twenty 3. On how many of the twenty men ?"
Reply: ."The women assist with the milking in the summer, but in the winter it is almost, exclusively
done by men and boys." done by men and boys.
4. What are the occupations of
the daughters who have left the farms to seek occupation elsewhere?" Reply: : Servants in the city,
teachers principally, and one or two teachers pri,
typewriters
5. "what is the average acreage of each of the twenty farms? How much help is employed? On how many of the farms is good health
enjoyed, and if there is illness, what is isted, cause and nature?
is teply: "One hundred and firty
Rean acres. One hired man
where the boys are small.
A vererally,
a where the boys are small A A very is good in nearly every case, but when the young girls undertake study or dressmaking they do not appear to have as good he,
working on the farm."

- It would be very helpful to receive from other farmers, wives, not only answers to the above questions, but
also any information along similar also any information along similar
lines, which, being the result of their lines, which, being the esu of use to
own experience, may be of others. Everyone attending a meeting of a Women's Institute should carry her notebook, and return to
her home with several valuable hints her home with several
for its increased comport and, perhans, beauty; whilst she herseli may be in a position also to give valuable hints equally worthy of a place


Does it Cost You Nothing? '" Tired ! well, what of that? Did'st
ease,
Flutterin Fluttoering the breaze ? the breeze ?
Come, rouse thee a work while it is
called toder called today;
Coward, arise !
; go tor
I go torth upon thy way ! thase who have to speak especially in the steps of the Great Master, to those who say, as a would-be disciple did once, "Lord, I will follow Thee whithersoever Thou goest." To you
I would say: "Have you counted the coust? Are you determined to obtain the pearl of great price, even though it may cost all that you heve ? The man who ofiered to was no easy thing, and we are not told whether he was turned from his purpose by the warning words : "The
Son of Man hath not where to lay His head." Our Lord's solemn words, addressed to all who wish to
 any man will come after Me, let him
deny himself, and take up his cross deny himself, and take, up his cross
daily, and follow Me." This is a luxurious and self-indulgent age, and we are apt to make our Christianity one of our luxuries, forgetting tha prepared and willing to "endure hardness." David scorned to present to God oferings which cost hin nothing. Do our ofierings cost any
thing? We are in danger of becoming mere carpet-knights in these days when everybody tries to make our road easy. Instead of being calle on to give to God, we plan and con
trive ways and means of raising money for church purposes without cost to the congregations, by bazaars, strawberry festivals, concerts etc. St. Paul was drawn arter
Christ, not by being told how easy vest thanksgiving service, and are regation. One psalm, one collect. hymn and anthem, and a esson of only two verses, are as much as they dare innot come to pray, but to listen. The sermon, if it is advisable to have one at all, must only last five minutes. The curate remarks that hare was a young man at church. last Sunday, and he exclaims Yawned; that must not occur arain! We must leave out a collect or something. What can we curate the banjo was one great means of obtaining influence in the parish, but even now the infant-school refuses listen to it.
Then they talk about the difficulty of getting hold of the young men,
saying that billiards and bi-weekly dances have lost their novelty, but a balloon club might attract a few The choir have grown treated to an excursion to the West Indies, while another choir, went to Khiva. The women belonging to the Clothing not imported from Paris. In fact the condition of affairs is very sad and the rector says, despairingly:
and don't see how Bille truths are to be
brought home to them. If they will brought home to them. If they will notically, or even by the oxyhydrogen light, I don't see what is to become of the Church." The curate hesitat
ingly suggests, as a last resource ingly suggests, as a last resource, worth while to try a little religion on them ?" Of course, this is in-
tended as a parody on the modern tended as a parody on the moderi
methods of filling the churches by making the services novel and enter taining, but are we not drifting ì


How It Happened.
His service was but rather by being that direction? How different is told of its difficulty: "I will show $\begin{aligned} & \text { St. Peter's plan for attracting dis } \\ & \text { him how great things he must suffer } \\ & \text { ciples : "For even hereunto were ye }\end{aligned}$ " for My name's sulte., hod knows called, because Christ also suffered men too well to try win them at for us, leaving us an example that Sugar-coated religion is worth very little, and is despised by those who the world He walked steadily along will respond gladly when called to race a danger or dififculty. The mudern idea of making our Sunday
services popular and entertaining has services popular and entertainng has
been shown up by a clever satire in an English paper
tured himself by living for about 30 years on a pillar 60 feet high, as Syrian monk the century did, he would not win the almos people. Instead of wishing to copy him, the authorities would probably lock him up in a lunatic asylum. But we are all attracted by self-sacrifice for the sake
of others, and we all wish we could of others, and we all wish we could
muster courage to follow in the steps of earth's heroes.
France a terrible plague raged in France, and the doctors could do
nothing to stop it, because they did not understand the disease. Then, Dr. Guyon, who was a celebrated
man in the prime of life, deliberately man in the prime of life, deliberately
chose to walk in the footsteps of Christ, and lay down his life to save others. To dissect the corpse of one who had died of the plague seemed the only plan of finding out the meant certain death. Dr. Guyon said, " I devote my life to the safety of my country." He then dissected a corpse, wrote out the result of his
investigations, putting the paper into a disinfecting preparation so that it might not harm anyone who read it, and died in twelve hours. One act of genuine self-denial, for the
sake of God or man, will lift human nature higher than any amount of listening to entertaining services, and will bring more genuine joy with the too. Men soon get bored when but who is really a disciple o Christ, really offering every day a service which costs something, never gets bored. Let no one think if he chooses to follow Christ. We never lose by giving to a real king, and our King will not fail to make a
quick and a grand return for all quick and a grand return for a among the poor in Chicago said lew years ago: "It seems to me that I have never been able to mak a sacrifice for Jesus' sake, because,
whenever I have thought I was doing so, straightway He has sent me such blessing that there was no sacrifice. renunciation that life, properly speak renunciation that life, properly speak
ing, can be said to begin. If we are to obey orders and take up the cross "daily," then it is time we set about it. do not come every great sacrifices do not come every asks from us most of the time ar ittle sacrifices, the opportunities fo which meets us in every home. Self
ishness can only be kept down by constant watchfulness and prayer Charity " seeketh not her own," eager to make others happy, regard less of litte personale who leads an unselfish life will be sure to find tha it costs something. Well, do yois want to slide easily through life winning no victories, because you Oh, yes, I know as well as you do that it is easy for me to talk, but while I show my faith by my word. you are probader thing-showing you faith by your works.

> Then rise, and in His strengtheni

might
The narrow path pursue,
There
wait.
Aght,
Whate'er is duty, do."
HOPE.

## How it Happened.

$\qquad$ Neath an old umbrella, tho coveren
with patches, Is not a bad place for the making of matches.'
That, translated into Italian, is what the repairer of umbrellas is en who has tried to tell the story of how her umbrella got broken a the fete of yesterday. "Antoni says he did not do it, and you say you did not do it, so perhaps I ca mend your broken whalebones, bu when it comes to the breaking o
hearts-well, who breaks, pays."

## 

## Gourlay Pianos <br> ARE THE EMBODIMENT OF THE LATEST

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Gourlay Pianos are built in our own factory under the personal carry each piano through every process of manufacture from the drying in the kiln, until in process of time the piano stands before you a finished instrument, bearing not only our firm name cast in the plate
nid the "Gourlay" name and trade-mark on the name-board, but and the "Gourlay" name and trade-mark on the name-board, but
bearing also the distinctive marks of our thought, individuality and bearing also the distinctive marks of our thought, individuality and
pianistic genius in the originality, richness, and approximate perfec-
tion of its musical scale, as well as in the solidit of its construction pianistic genius in the originality, richness, and approximate perfec-
tion of its musical sale,
sym well as in the solidity of its construction
symmetry its design, beauty of its touch and tone, and elegance of symmetry of its design, be
its appearance and finish.

## ()11\% M1 Widulty

Are Not Merely First-class,
They Are Something Better.
There are pianos, first-class in material and workmanship, whose construction and design, inside and out, present no improvement over
what they contained years ago. We offer something more-we offer mproved and improving pianos, embodying not only first-class materials and workmanship,
but also that certain fine qual-
ty of excellence which results rom their being constructed in an atmosphere of progress, and the same spirit which has
produced first pianos of such remarkable excellence is subtly expressed all through
our work; a touch better our work; a touch better
than mere first-class. For these reasons our pianos are to-day more desirable, a a
better bargain, than other etter bargain, than other
frst-class makes. This is strong language, and we
mean it. We have chosen our words carefully, while emphatic, and we desire that ur pianos be tried by the standard we have here ex


We solicit an inspection of these instru We solicit an inspection of these instru-
nents at our warerooms or at the warerooms of
those who have the agency of the Gourlay those who have the agency of the Gourlay
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we will send you newo ullustrated catalogue and we will send you new ull
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## Gourlay, Winter \& Leeming

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Consumption, an Infectious laid down in institutions for the car Insumption, an $\begin{aligned} & \text { Infectious daid down in institutions for the car } \\ & \text { and Preventable Disease. }\end{aligned}$ and cure of consumption, of which the
and onsumption and tuble following are the most essential: : Mr same thing, consumption being the name ly summed up the procedures for the cure popularly applied to pulmonary tuber culosis, or tuberculosis of the lungs. It is caused by a well-known organism, is extremely infectious, and communicated
from one person to another through the sputum (spit). This contains immens numbers of the organism, and if it were in all cases properly disposed of, it would be possible to do away with con sumption altogether. As it is, an im mense proportion of the total number dealhs is due consumption, and thi again to the fact that people persist in spitting on the floors in all places wher the law does not interfere, and are often absolutely careless in their homes and at
their work, not realizing that they are making themselves as dangerous to the community as a man with smallpox There is a chance of infection through
the discharges from the bowels the discharges from the bowels, since
certain amount of what is coughed up is certain amount of what is coughed up is
liable to be swallowed, but the great and positive source of danger is the sputum. So long as it is wet it does no particular harm, because it is not
scattered, but so soon as it dries into powder it is blown about, inhaled into the lungs of other people, and carries inrection wherever it goes. For thi neglected and not recognized untile advanced, apart from the fact that it is unsightly and disgusting, the practice of spitting everywhere, and on all occasions, and especiafly in public places,
should be ruled out sary to spit, a proper receptacle con taining a strong disinfectant solution should be used (corrosive sublimate tab ing that, the fire. Persons who are in ing that, the ire. Persons who are in frequently changing position to use a
basin containing solution tires them very basin containing solution tires them very
much, can use rags, but if so, they must much, can use rags, but if so, they mus
be placed in the solution, or burned immediately. There is no fear of infec tion, except through neglecting to prop-
erly and immediately destroy the sputum. erly and immediately destroy the sputum.
The greatest care should be exercised The greatest care shour ine exercised some sputum may have been deposited
upon them. It must be remembered that these things are not necessarily clean because they appear to be so. It
is well to keep a special set of dishes, etc., for the patient's use. These precautions, in conjunction with thorough ventilation at all times, are adequate protection for those who live in the
house with a
consumptive. sputum cups are made for patients to carry about with them. They are small, of suitable shape, and can be concealed
in in a handkerchief, and should be always
carried and carefully used. When a clean carried and carefully used. When a clean
handkerchief is taken, which should be requently, the soiled one should be put right into water, or some dissinfecting solution, and boiled for half an
fore it is handled in washing.
CONSUMPTION CAN BE CURE
RECOGNIZED IN TIME.
Therefore, anyone who has a persisten Therefore, anyone who has a persisten
cough, especially if accompanied by yellow sputum, should take pains to find out what the troubie is, and when he goes to a physician for this purpose, tak
with him a fresh sample of sputum in small bottle for examination. After the sputum is in the bottle, cork it tightly and stand it, so that it is completely overed, in a basin of disinfectant solu
tion for an hour (corrosive sublimate or tion for an hour (corrosive subhimate or
carbolic acid, $5 \%$.). This makes the met
handing of the bottle safe. Those who live so far from a physicilian that they ave to walt some time for an opportunity to go, can begin at once to ob
of consumption under four heads: Ai
cure, rest cure, food cure, and mind cure Absolutely the most essential thing is unlimited fresh air. Stay out in it all day, and sleep out of doors at night smanl consideration, unless the conditions are very unusual. You will be breathing the air that goes with the weather in any case, indoors or out, ex ept that out of doors you get it ahso
lutely pure, and indoors you do not. To sleep out of doors in cold or damp weather the individual must be well proected. He should have loose, warm the way of mattresses and bedding, and a few blankets over him, not enough to weigh upon him. The head, neck, ears and face can be protected by a hood to be uncovered being the nostrils.
breathing through the nóse is Patients have been known frequently告 sleep out with the thermometer $30^{\circ}$ below zero in the Adirondacks, and able than others ates are more favorwell protected there iong as they are the greatest benefit should not be do fived from sleeping out of doors habitually almost everywhere ; not, of course, The daily cool bath for cleanlines also very important. It should' be taken in a comfortably warm room. Profuse perspiration at any time should be followed by a thorough sponge bath in
tepid water, and a rub with alcohol is very refreshing. Rest is of great importance. If the patient is atrong enough to walk or drive it is well to do it, but he should stop the instant he well short of doing all that he feels equal FOOD SHOULD BE TAKEN EVERY TWO HOURS.
Meat-that is, beef and lamb preflerably and that rare-as much milk and
many eggs as possible. They are est taken raw as possible. They are some salt and swallow whole. Cerealls and all the dishes made with eggs and nik are good, also ice cream ; in fact, plain good food, well cooked. Everything hoerful frame to mind. the patient in a him about his illness, and he should try oot to think of it himself-simply attend to all the things that can help, him, and when they are done, forget them until it determination not to worry, combined with absolute cleanliness, and as much as possible of rest, food and fresh air, will reate the best possible condition to aid whasiclan. Let those who are well, and wish to remain so, avoid drinking out of zups used by the public on trains, at drinking Yountains, etc. Never stay in a
place where people are spitting on the place where people are spitting on the
floor, and keep their akirts ofl the ground in such places, and out of doors. It is well to do so indoors too, unless you are ure that the floor is clean. Pull up
he shades and let in sunlight, and keep the house thoroughly ventilated night and day. ALICE G. OWEN.

He who would be a great soul in future, must
W. Emerson. Henry extended the tip only of his
tongue to the doctor, when asked to put "Put it all out," said the doctor. "
Can't," rejoined the little chap, " the other end's fast in me neck

## Witt we Fowers

## Notes.

Roses intanded for winter blooming
should be repotted now, and the pots should be repotter now, and the pots dower-bed somewhere. Give plenty of
water, and sprinkle the foliage well very frequently. Do not neglect to showar fuchsias very often and very thoroughly. Don't forget to stir the surface of the flowerbeds, especially during dry weather. A mulch placed about rose bushes, sweet great value during this season. A ittle
wood ashes worked in about the sweet wood ashes worked in about the
You may still plant gladiolus bulb You may still plant gladiolus bulb
and have a good showing if you takio and have a good
good care of them.
Geraniums intended for winter blooming should not be permitted to flower during the summer. Pinch ofl all buds according as they form.
Pinch back the stems of chrysanthem-
ums now, in order to induce bushy ums now, in order to induce bushy
growth, otherwise you will have long, gitraggling stalks and fewer flowers when December comes.
Keep the seed from lorming on your sweet peas, pansies, aquilegia, poppies
and nasturtiums, if you wish to prolong and nasturtiums, if you wish to prolong
their flowering season. Remember the mor of these flowers you cut, the more
you will hive. Let them go to seed, you will have. Let them go to seer
and the beauty of the plants will be ove and the beauty o
If you need leat-mould to mix in your gardon or with soil for potting plants, gand cannot get hardwood leat-mould conveniently, begin a compaot heap now and have a supply ready for use out-of-the-way corner, throw old sods, weeds which have been pulled from the garden, parings of apples, potatoes,
turnips etc.; in fact, any lind of vegeturnips, etc.; in fact, any kind of vegetable matter which will decay and form hearts of your flowers next year. Keep
adding to the heap all through the sumadding to the heap all through the summer, pouring on dish-water, slops, otc.,
often enough to keep the heap fairly well ortan enough to keepp the heap rairy wed.
and the heap once or twice.
and let it stand over wintar. In the and let it stand over wintar. In the
spring, the groater part of it will be spring, the groater part of it will be
found to consist of a fine black mould. equal in every way to the genuine leal

Some Reasons for Daily Exercise.
Any man who does not take time for Any man who does not take time for
exercise will probably have to make time to be ill. Exercise gradually increases the physical powers, and Exerciso will do for your body what intellectual training will do for
mind-educate and strengthen it mind-educate and strengthen it.
Plato called a man lame because he exer cised the mind while the body was atlowed to suffer.
A sound body lies at the foundation of all that goes to make life a succoss. Exercise will help to give it.
Varied, light and briak exercises, next to sleep, will rest the tired brain better than anything else. health is like a w wo take care of his sharpen his tools.

## Humorous.

Teacher-"' I don't 800 why you can't
understand this rule in arithmetic, understand this rule in errthmetic, to understand it when it was first exto understand it .when it was first ex-
plained to me." Johnny-" Perhaps plained to me."
your teacher explained it to you beiter."

Faotor-" I am afraid, Murphy, I'll have $\begin{array}{ll}\text { to raise your rent.". Murphy-" Faith, } \\ \text { I'm glad of that, sir." } & \text { Factor-". Glad ! }\end{array}$ I'm glad of that, sir." Factor-" Glad ! You're the first "' $\begin{aligned} & \text { Me ever heard } \\ & \text { that." Murphy-" Begorra, I'm glad, }\end{aligned}$ because it gives me great trouble to raise it meself." Even the horse that breaks a recury still has it.
The tips we get for suthing are usually
dear at the pritc.
dry it before you come back." She did
this, giving up a little of her precious leisure time for the sake of obliging a poor country customer. And as she was always ready to oblige people in every way she could, her employers soon found
out her value. Indeed the manager said she put as much life into her-work as ten other women.
So if you are looking for good luck be ure and seak in the right place, and on't expect it to drop into your
rms from the good-luck tree-for it oesn't grow on trees, but is manu actured by hand. If things seem to be roing against you, don't make up you s a boy once did who said
My name is Simpk
most unlucky lad
I sit by Brown,
dreadful little cad
dreadrul little cad ; secundus, who's a
He ran a needle in my calves, and
The master-that's old Boggles- saic sarcastically : "' Well,
My dear friand,
Simplins My doar friend, Simpkins primus

- Knows that makes me sour)
in for half an hour.
'Bother Boggles " is my motto, for he Like a cheerful little thundercloud that's always dropping down
With ". Simpkins, I am certain I disWith " Simpkins, I am certain I dis
tinctly heard you wink; Do you think that it is right to polish up your nose with ink ?
In wiping all my tears away I hadn' time to think,
But used a duster just employed for mopping up some ink !
My back is very tender, and I felt the brutal cane, , as the poet somewhere says, " the blows came down like rain." ecstasy of woe, master let me go,
Take you head, sir, to the housemald, It you wear such lovely collars you'll be taken for a fop. undone, gloaming ;
No
flour-leal
tog 1
little maid in a gingham gown Had washed all the dinner dishee :
Had finished her "stint" ere the went down, fairy wishes.

When just at her feet, as she raced it play The blossoming meadows over,
he found what the other had sough all day,--
She found, yes, a four-leaf clover!"

An American once put up a notioe in his office window: "Boy wanted. Cal Next morning a crowd of boys waited outside, and it was hard to make choice among so many. into a tree and told the boys to stand some distance off and fire at it with a stick. He said
that the boy who hit the nail after three that the boy who hit the nail atter thre
trials should have the place. When they all failed they were told to try again next morning. Next day they went at
it again with fresh energy, and one boy it again with fresh energy, and one boy
succoeded in hitting the nail every time succoeded in hiting the natil either. When asked the secret of his wonderful sucoess he said that he was very anxious to gft
the place, as his father was dead and his the place, as his father was dead driven a
mother was poor, so he had dren nail into the barn at home and had practised nearly ever since. Of course he
got the place, and as he always engot the place, and as he always en-
couraged his luck by steady, patient perseverance, he was a very prosperous man-as he deserved to be. I don't care what your work is, luck will be on
your side if you put heart into everything you do.
A girl in a departmental otore soon worked her way up to the hoad of he
department. The secret of her good department. The secret of her good
luck was that she never grudged any

A little maid in a gingham gown
Went hunting the meadows over Till the birds were tired, and the She sought for a four-leaf clover !

Just My Luck."
four-leaf cluvers bring luck, they say ;
And patchwork '. stint " and dishes Were tiresome dutics al every day
She wanted some fairy wishes : With dishes unwashed and "stint She tramped back home in the

Was there to be had for her roam

trouble if only she could give satisfaotio to customers. This is a sample of her way of encouraging luck. One day a
farmer's wife took a fancy to some print but was not sure whether it would wash well. Instead of assuring her that the colors were perfectly ". fast," without
taking the trouble to find out-as much taking the trouble to find out-as much
clerks would have done-this shop girl said: "Are you going to another part of the store, madam? It 1s my lunch hour, and I will take a sample of the

Now tell me what on earth could be more innocent than peas ?
But just because friend Boggles saw me with them, if you please
He turned my pockets inside out and confiscated, then, button-hook, some A knife, a comb,
Three peppermints, an appletart, and
what has made me sad, " Boggles is a cad." cousin DOROTHY.

## Gems of Thought.

In the depths of the sea the water is still
the heaviest grief is that borne in silence:
the deepest love flows through the eye
and touch ; the purest joy is unspeakable; the most impressive preacher at a funeral
is the silent one whose lips are closed.

Each man has an aptitude born with
him to do easily some feat impossible to
any other. Do your work -Fmerson.
the cheerful sunbeam.
One day a sunbeam met a cloud
'Twas in the month of May.
'Twas in the month of May.
Frowning, the cloud said, angrily,
"You're always in the way !
The sunbeam smiled, and said, "My
dear,
Why can't we work together ? The flowers need us both, you kn
Sunshine and ralny weather."
There has never yet been a cloud in sunshine.
A pleasant word is quickly spoken,
but not quickly forgotten. gain.
Whoever has a good temper will be sure
Whoever has a good temper will
The truest happiness conees from giving hoarding.


| gallonsi, his |
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| Anyone |
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HOURD HAVE TO STOP HER IT DOWN.


DOW MANI WONEN RAVE TO DO IMURNS HFA DAY TO DATH MmuRy inar inimy ius





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he many tiny wond ders of naturure will begiven
o anyone securing one new anyone securing one new yearly subrive
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well improved by showing this journal to

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## Farms





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Unquestionably
Work
who live amos anos


Sometimes, of ofory fors a great many?
nnd feols tempter one gets sick of it,
town where wompen to wive one were in
so little to do Yet, alter comparatively on must
remember that there are compensations.
You have heard the story han
ou have heard the story-have you not?
-of the pilgrimm, who were each com-
pelled to carry a
pelled to carry a burden to a oertain
shrine. oo the way this one grumbled
and that on
and that one grumbled, -Tf only he had
someonen else's burden, how much easier
wouldrudged onchange burdens. Again they
miles had been passed, each befh was anxious
to have his own
There are two compensations at least
in rogard to farm work which muist ap
 on the lonely shore, and, no prepumbury
lhere ere a fev such tarveling , in the
first place there is variety first place there is variety in it, and to
a cortain extent freedom ; in the second, it
does not worry
 in frul posession of all the ". short,
hours and long holidays which are suppoused to mank the thays which are sup-
pone, said: "In tot an eapy
onat I have morere work to to one, said: "In a way 1 have morer work to to
do no whan ever in my hlife before, but d
don"t then don seam to mind it. It is difinerent,
you know, I am never worried now.,
It was the old quastion of work nersus. worrys and one quertion of work versus
witness to the mor hathen to buth, that it it is oporry witness to the truth, that it is worry,
not work, that kills. Of course ${ }^{\text {there }}$ is a very
possibility
of working too hard. may keep at it, and at it, until one goes
ikeo a machine, early and late, with
never a like a machine, early and late, with
never a pause or obt of recreation; and,
presently, the body, like any other mat chesen, give the out, like any other ma-
one gets into the chronically tired state, too tired to work
es one used to." too tired to read, or
to enion onets all to ene used to, too tired to read, or
to enjog ones sell, almost to otird to
think, a host of signs which proclaim the worn-out body, the whecessity froclaim the cuperation and for turning a right-arout-
face in the way of living which demands face in the way of living which demands
so constant a strain on one's bodily powers. There is much truth in
Thoreau's philosony. "in mily Thoreau's philosophy: "In short, I am
convinced, both by faith and experience, convinced, both by faith and experience,
that to maintain one's self on this earth is not a hardship, but a pastime, if we will live simply and wisely." In this
matter of simplifying life and lessening matter of simplifying life and lessening
work each must be her own architict Each knows her own circumstances, and
she must be a stupid woman indeed who she must be a stupid woman indeed who
cannot plan
come lessener if she applies her mind to the
problem rightly. When every device has been made use of
there will still be plenty to do-that goes without saying-and for some people a
great deal. In such cases wher the great deal. In such cases, where thare
is positively
little time for rest during is positively little time for rest during
" daylight," proper attention to the very prosaic matter of eating and sleep-
ing will do much to keep up energy and do away with weariness. There is
nothing that will make one feel more thoroughly miserable and "out" with everything and everybody than a diseased
stomach, and there is nothing in the stomach, and there is nothing in the
world that will put a stomach out of
brder eating quickly and taking "a sup with every bite." Again, the constant worker
must have sufficient sleep. While we sleep the work of repair goes on, and if we do not give it sufficient time to ac-
complish this we must suffer the conse complish this we must suffer the conse-
quences. quences.
So much for work; now for worry. It on one than seven days' work. Can you remember a day upon which you were
siven over to it.? How did you feel? given over to it•? How did you feel
Perhaps the sun shone, the birds sang
and all the earth was glad and green-
but you didn't enjoy it a bit, did you?
You felt how very true were the poet's

## Ah, lady, we receive but what we glve, And in our life alone And in our life alone doos nature live, Ours is her wedding-garment,

 shroud !And would we aught behold of higher Than that inahimate cold world allowed To the poor loveless, ever-anxious
crowd. Ah ! from the soul itself must issue A light, a glory, a fair luminous cloud
Enveloping the earth." And so you moped, and were neither a
pheasure to yourself nor to anyone elso Your appetite failed; you cound not
sleep, and all the time you were con-
scions scious of that dull pain about your
heart somewhere, which shows how surely the condition of the mind reacts upon
that of the body misery ? -possibly ahout some all little
thing which vanished came to nothing. Now, whin your, and
into it, isn't that usually the way ? Do not many of the things about which wo
pine and fret come out all right in the end? Then why go more than half way to meet the trouble? Great calamities come to us Comparatively seldom, and yet some of
us are always anticipating them. Now all this is very foolish. The habit of worry can never do us or anyone else
good, but ouly harm. It renders us in-
cand good, but ouly harm. It renders us in-
capable of working or thinking properly
makes makes us peevish, and wrinkled, and fight it off, and if we will only try we we
will find ould will find out how easily this may often
be done. Sometimes merely
in in some interesting bit of work, going
int to sea a out to see a friend, or reading a very in-
teresting book will work wonders for us teresting book will work wonders for us
in. tiding over the mood until all the
world beging world begins to look bright again.
Above all, let us simply trust that will be well, and then shall we forget to
worry. Surely our fish worry. Surely our faith may be as
great as that of the grand old Stoic Epiotetus, who said:" It is enough for me. friend of to look up to heaven as a friend of God and fear nothing that can
happen." In conclusion may $I$ add a few quota-
tions from one and another who have written upon this subject? They are well worth reading: there is no land when they can see nothing but sea."-Bacon.
" If I were you I would not worry. Just make up your mind to do better when you get another chance, and be
content with that." - Beatrice Harraden. "If we would only take the burden appointed for each day, we might easily
manage it ; but we choose to increase our trouble by carrying yestenday's over till to-day, and adding to our morrow's
burden before we are required to bear Farmer Dame durden. Farmer's Advocate" Office, London,
I am sure you will all be glad to wel
come Katharine Blinkbonny
come Katharine Blinkbonny, and invite her to our corner again. So you liked
our last year's Ingle heading better our last year's Ingle heading better,
Katharine.
There seemed to to more of it then-still we have our grate yet, and our rocker waiting for guests, and our
cat. Sometimes I $I$ wish it were and real at. Sometimes wish it were a real
live cat, which might rub its nose on my face to let me know it was a friend.
love cats, don't you? ove cats, don't you?
Dear PRACTICAL LETTER. yoar Dame Durden,-May I come into home-like "fireplace " is restful to weary
hes eyes, and also to eyes which are not
weary, although in last year's "c Farn Advocate " it looked much more real and Your " spring article " was not out of
Season arter all, for the weather was
quite spring-like when most of us read
it. Spring was late, but God'v promisee never fall (Genesis 8, 22).
The fresh cool breezes, how exhilarating; and the sunshine, and shadow
is all given us in love. " Shunshine and shadow !'" How incomplete hife would be without its shadows. All sunshine
might cause us to wither might cause us to wither and die. The
shadows sometimes give us time to reflect to see where wo stand in God's
sight. sight. ${ }^{\text {Does }}$ anyone ever have trouble softening hard or frozen butter trouble softeen-
This would have been more useful timest December, but there are cold days yet to a good plan to have the butter cuth and placed on a clean plate for the next meal; cover the butter on the clean
plate with a glass cover (one ofl a fruit plate with a glass cover (one off a fruit
bowl will do), and keep in a cool or cold place; then the butter is ready at a moment's notice. In cold weather bring fore meal time, and it softens gradually the glass in some way drawing the heat, yet preventing the butter from becoming greasy. It also prevents the particles of
salt from rising on top, salt from rising on top, as it sometimes
does when exposed to the air and heat. When cleaning lamps, trim the wicks and always turn them down on a level
with the brass parts which hold them with the brass parts which hold them.
This is a good guide to have the wick trimmed evenly, and, as a result, you have a well-shaped blaze. Then by leaving it there until time to light the
lamp, the oil does not trickle over the burner making such a disagreeable odor. Soft, soapy water, with a rineing water and plenty of good, clean drying cloths,
make clear glasses, but takes make clear glasses, but takes a long
time if done every day; so, as a dally cleaning. we find that by moistening newspaper, rubbing them with tt , then
polishing with two cloths, "lear. "Amelia " speaks of corn maal improv ing pancakes. A capful of graham flour or all graham flour makes them delicious.
Towels will last tape or cord is fastenged in a loop ond of the hem at each end. Thls allows the
towel to be changed about as desired, towel to be changed about as desired, Now is give the time when chance to dry.
mosquitoes and If iles begin to enjoy coming in the house. If one cannot have good wire scremss,
the cotton netting does very well, and by careful handling may last two or oven chrefer years.
then may fastening or on the
windo window, cut it the required dize, then cut
thin etrips of oedar, or some easlly-ut thin atrips of cedar, or some easily-cut
wood, about half an finch in width ; tack the cedar over the netting on the lower pert of the upper sash and around on the frame. The wooden strips prevent opens from the top, the netting may be fastened all around the frame in the same way. If it is an upstairs window the screen can be put on from the insid I am pleased to kn
sensible and practical stand regarding ' fashion,"' Dame Durden.
If it is in accordance with the rules should like to know what will remove stains which have beon on table uthon for a long time, also what will remove,
coal-oil stain from a soft wood floor? KATHARINE BLINKBONNY. Can any of our readers answer these
questions ? If so, we shall be very glad,
shan't we, Katharine ?

## The Rainbow

There are seven sisters that hive all day In a wonderful house of Hight; Out on the sea of night. sister
seen,
For they stay in bed, they stay in
Violet, Indigo, Blue, Green, Yellow,
But when it is day once' more, once
more,
They rouse themselves from sleep If the rain begins to pour and pour, It will soon be time to play bo-peep.

```
ut they wait
most fled.
```

Then we say there's a rairbow over head.
it is only the seven sistery seen
In the house of light at the open doorOt, Indigo, Blue, Green, Yellow,
Orange and Red. -St. Nicholas.

## Fashion Notes.

 No dress is so becoming to women as the light, eiry attire suited to the sum-mer weather, and she who is wise will mer weather, and she whe is wise wil these hot summer days, just as charming as she can. Never, perhaps, was a
wider margin given in the line of dross wider margin given in the line of dress
materials; tit's enough to make one cool materials; it's enough to make one cool
just to go into the stores and look at just to go into the stores and maks ming,
them, organdies, mulls, Swiss muslins, French chambrays, foulards, summer silks, prints, ginghams, linens, ducks, crepe-de-chines, voiles and challies, plled up in billowy masses-enough to make a dozen on the spot, unless, unless-but let that pass. All the materials mentioned above are very fashionable this year, and are worn by old and young
alike. Most of them are in the moost dolighttully soot colors, this being do cidedly a season of half tones. Striking or decided shades are seldom seen, but dove grays, light champagnes, the palest of blues, greens and pinks, are in evi-
dencoe verywher, with black and helio-
trope tor the older folk. Even in the trope for the odder folk. Even in the
fowered Vails, the pattern running as a sug-
gestion rather than a bold anounco
ment of dexign or tint.
White materials ment of design or tint. White materials
are very much liked, and are always are very much iliea, and are always sertion are the uninersal trimmings pro-
vided for theso charming fabrics, with vided for these charming fabrics,
soft stlk for the wide girdes, now much worn with the fimsiest gowns. As a a rule, these girclies are made quite deep,
pointed at the hack, and boned into pointed at the hack, and boned into
place with teatherbone.
The silk place with reatherbone. The
pasises in sot forst then to ther
it is caught down by one of the pretty enamelled or dull silver buckles, which may be bought for thirty cents and up-
ward
 materials : Ie you are bying a summer
dress and the clerk tries to press upon dress and the clerk tries to preses upon
you some thick-looking material in
an bright color or decided pattern, dont
let yourself be persuaded into taking it The chances are that he is trying to Work off on you some old stock. Insiss
on having the daintiest, coolest-looking thing that you can find, and you will not be sorry for it.

- tale with a moral. The other day it was scorching ho
down town-every where else, probably
dou but We are concerned with "down
town "-the sun beat upon the pavement end was refected back from the brick
walls with a white shimmer. Into the midst of the shimmer, presentily
meandered a
a girl who wore a brimht red meandered a girl who wore a bright red
silk waist, and a hat covered with red
poppies. She looked like a bit of the Torrid Zone, and one had an irresistble desire to look anywhere elose but at her dress had cost, probably, not more than hall as much as that worn by the first
damsel. It was the coolest of blue damsel. It was the colest of blue
chambray, made in a simple shirt-waist suit, the waist laid in wide vertical
tucks, the skirt in similar ones at the
 a white " corset-lace". belt with a silver buckle, a white collar with tabs, and a
white ready-to-wear hat, trimmed with a white ready-to-wear hat, trimmed with a
few bands and bows of rather narrow
After the scar let lassie, this girl came lake a refreshing breeze. One thought of a trillium in a
shady wood, of a violet beside a cool,
 making up thin materials.
making up thin materials. In making tup these thin fabrics, the
style must be buided by the matorial.
Ducks, chambrays, ginghams, tinens, crashes, and prints are almost invariably made with tuckings or plaits. $\begin{gathered}\text { Some } \\ \text { times these run vertically }\end{gathered}$ as times these run vertically as described
above, sometimes horizontally around the dress. A cool green linen recently seen
 all-over embroidery. Below the yoke
the linen was gathered to forma a slikh
two tucks about an inchill

about. the hips, another half wad down,
witht thre about the bottom o the
skirt, which was cut with a protty
wot skirt, which was cut with a pretty
Dare,
The organdies, mulls, Swisses, etc.,


 rest of the way around. The lower part
mey be trimmed with narrow, lace-
 on the straight," from eleven to frtoen
inches deep, according to the height of Inchos deep, according to the helght of
the wearer, which may be trimmed at the the woarer, which may be trimmed at the
bottom with several
rows of natrow tucks, and may have a beading of the
goods or a band of ingertion. In congoods or a band of insertion. In con-
sideration of the laundering, the walst should not be too fussy, yet an alry
 attained bo a yoke of laoe or insertlon,
about which depends a bertha edged with about which depends a bertha edged with
lace. Sleeves are still made close at the lace. Sleeves are stil made ciose at the
shoulder and full at the writt, although a perceptibl ollengthening yo the the cughs
seems to point to the raising of the fullseems to point to the raising of the full-
nees to a higher position on the arm. When the yoke ir of lace, the cuff should be made of the same mADAME. MODE.


## Domestic Economy

 our home cookshe boasts of no great learning, she has no extensive yearning
For the knowledge gained at college or
the higher sort of schools
She does not show a passion ('tis the twentieth century fashhon)
For the mystic, cabalistlc fads and isms pushed by fools.
But ab, just keep a-looking at the maiden sweet a-cooking,
How she bakes the bread and cakea-the sight will fill you with surprise
oh, the joy emphatic, oh, the pleas. ure most ecstatic.
In you resting when you're testing her
fine puddings and her pies !
When bread is taken from the oven it should be exposed to pure air until per-
fectly cool before being wrapped in a bread blanket or put into a bread box.
A bread box should always be perforated, so the air can have access to the bread. When bread is shut in an air-tight box it becomes moist and grows moldy. A good
plan for keeping bread tresh is to put it plan for keeping bread fresh is to put it
in a large delft crock, with a looso-ftting lid. It retains its own moistare, is kept at a proper temperature, and is very easily cleaned.
Sometimes pieces of stale bread are used up in griddle cake making, even when pint of milk, one cupful of bread crumbe may be usod. stir these together until quito smooth, then add one teaspoonful
of melted butter and two well-beaten of melted butter and two well-beaten
egss. Add onehall teaspoonful of salte and a little elour. These are good when not too thick. A very little more milk
must sometimes be added. The erga are must sometimes be added. The eggs are
suffcient to make the cakes light, al
al sulfficent to make the cakes light, al
though usually bakidg powder should be be sitted in with the flour in the sweet-milk cake. As when sour milk is used, the plain cake that uses no eggs is fully as
good as the extravagant sort, and, of good as the extravagant sort, and, of
course, baking powder must be used with the sweet milk to take the place of the egg.
A novel dish is a savory bread-andSutter pudding, and here is an oppor-
tunity of using up stale bread. This can be baked, steamed or boiled, the two latter methods being far preferabte. Butter a pudding bastn, or use clarified fat
instead. put a layer of thin slices a Instead, put a layer of thin slices of
bread and butter, then some silices of bread, or it matter, then some silies of
meat, out up, if preferred, a sprinkling of chopred onion and par-
sley, some pepper nurd salt. and sley, some pepper nuid salt, and another
layer of bread and butter until the basin iayer of bread and butter until the basin
Is full, making the bread the last layer Have a good teacupful of gravy ready and if very thin thicken it with a the four, beat up an egy, and and to and let it stand for ten minutes or so,
Steam for two hours, or botl one and
onehalf hours-|Ladieg' Home Journal.

## cossip.

The Sunnysido herd of imported and home bred Hererford cattle, one of the Largest and best in Ontario, the property of O'Neil Bros., Southgate, Ont., some 15 miles from the clty of London, and 4 miles from Lucan, on the main line o the G. T. R., were recently seen by a representative of the "Farmer s Advocate" peacofully grazing on the fertile fields of the beautiful farms of their
owners, or comportably housed in the spacious and well-appointed barns, as were the bulls and the younger calves. The splendid condition of the cows and
heiters in in the pastures fully sustains th reputation of the breed as ranking in the forefront of all the botines as par excellence heef producers on grass alone. A
prettier picture in rural
life is seen than that of a group of thees white-
foed beautios silhuutted on the rich faced beauties silhouetted on the rich
groen background of a sloping hillside pasture on a June day. And here at the aristocracy of the breed, modeotly carrying the blood of a long list of prize-
winnerg and champions of the Royal winners and champions of the Royal and
International show-yards of two conInternational show-yards of wwich, as
tinents, the or hiod
portrayed in their extended pedigrees the portrayed in their extencad peainteligent understanding and a fertile gitt ot ex-
pressing. At the
head of the herd pressing. At the head of the herd
stands the perless and prepoent sire,
Imp. Onward, in his threeyear-ohd form, Imp. Onward, in his three-year-ot form
a worthy son of the great March On
on abundantly proving in his individuality
as his lineage, the well-wo aphorism, ". blood will tell;", his sons
and daughters being uniformly true to and daughters being uniformly true
type and strong in the indications
 to produce and perpetuate the class of
cattle yielding the largest percentage of cattle yielding the largest percentage of
high-priced cuts of beel at the minimum of cost and the maximum of proft to to
of the breder and feeder and of satisfaction
to the huyer end consumer. Space to the buyer and consumer. Space
limits fortidid individual mention of the limits forbid individual mention of tho
sixty or seventy females in the herd, of sixty or sevent seite it to say that one
varying ages, sum
typeruns through the herd, the type that


 adders of many of the cows and the im-
condition of the calves belie the imaression entertained by some that the
indifferent milkers, and the young things bred in the herd are equal to if not better than their imported ancestors,
showing that the owners have the genius showing that the owners have the genius
and intuition at once of breeders and judges, as well as handlers of their favorite breed of cattle. It is pleasing to note the increasing demand for these
excellent cattle, not only for the ranchacise throughout Ontario and the Maritime
Provinces, where the Messrs. O'Neil have Provinces, where the Messrs. O' Neil have
made many sales during the last year. Tade many sales during the last yerice
Two or three young bulls fit for service are yet for sale, and should be be
quickly taken, while the crop of bull alves and heifer calves is superb, and will meet the requirements of the most

Mr. Hackneys for Canada Mr. Robert Beith, M. P., of Bowman
ville, Ont., has purchased in England the
年 From Mr. Burkett, Poocklington, chestnut
 Henry III. From Mr. Petch, Smylett
Hall, bay yearling colt Smylett Swell.
sire sire Royal Denmark; chestnut mare,
Smylett Duchess, sire His Majesty (this mare won several prizes last year, in-
cluding first at Pocklington and Escrick) ld stallion, St. David, sire President Roosevelt (this colt took second prize at
the late Otley Show). From Mr. Holdridge, Cliffe, his two-year-old stallion, commended at the Otley Show). From Mr. Toder, Meltonby, his bay yearling

colt, Lord Meltonhy, sire Royal Den| colt, $\begin{array}{l}\text { Lord Meltonhy, sire Royal Den- } \\ \text { mark } \\ \text { (as a foal he had an unbroken }\end{array}$ |
| :--- | record, and took second prize at the late

London Hackney Show and second at Otley, in May). Mr. Beith purchased
from Mr. Jebson, Pocklington, a threorom Mr. Jebson, Pocklington, a three-
year-old stallion, Wadworth Squire, sire Carton Duke, and a four-year-old riding
Cob, Smylett Mordel, sire Chocolate


## cossip.

A thing that is for you to do nobod Undono by you, it lacks jus
which you only can put into it.

## noceal sightly

sightiny ${ }^{\text {sing }}$, thine own have less ;
rink of thys
Nink of thyself seldom and $1 \mathrm{lghtl1}$.
Live that thy life some other bless.

Messrs. Hamilton \& Hawthorne, of Simoo, Nortok cou, int., importers and or France, for a number of Percheron stallions, and expect to be back about
he last of August, with a carefuly se the last of August, with a carefully so ,

Mr. George D. Fletcher, Binkham, Ont. in ordering a change of advertisement sale this spring for my young bulls which 1 had advertised in your paper trade than during the past season. My are a promising lot. $\begin{gathered}\text { My present calve } \\ \text { My }\end{gathered}$ are sired by Spicy Robin $=28259=$ Crimson Rilbon, by Imp. Blue Ribbon,
dan Crimson Fuchsia 12 th , and Imp , Joy of Morning. My cows are now almost all either bred to or have calves at foo by Joy of Morning.

At this season of the year there is ap io be craving for variety. The warm
weather suggests garden vegetables which are not yet attainable, except at exorbi tant prices, and the prudent housekeeper is likely to fall back on that popular sub titute canned goods. Now the canne
soods are all
right-sometimes. would be all right, I might almost say would an all right,
all the time if proper care were taken
about opening the cans. toes, especililly, it it is necessary to empty die can immediately it is opened. The in its turn attacks the tin, and you have
poisonous, disagreeable salt.
People a poisonous, disagreeable salt. Peopre
are often . stricken with a serfous and sometimes fatal illness on this account
More frequently the attack is not os severe, and is never credited to the inn
cent-looking tomato can.
suffolk stallion, ontario. Mr. J. R. Johnson, Springford, Oxford
County, Ontario, writes the "Farmer's divocate " as follows: "In your issue
June 9 th I seo an enguiry about the Sufrolk stallion, Ontario, asking his ago and former owner. 1 owned him three years previous to last April. He was
foaled in ing1, and was bred by Joeeph Beck, of Thorndale, Ont., who imported
his sire and dam trom Enyland. Ontario is recorded in England, in the Sufolk Punch Studbook. I will gladly answer
 same route, and I have reason to believe
if he were here again he would have more than he could do, havi
himself a very sucessful sire.,

## queer epitaphs

Here lies the body of Jonathan Round, Here lie the badies of two sisters One is buried in Ireland, and the other Near by, in the same cemetery, is the Wht tormerly of thrided alves of a that place. who tormery resideed at that prace on the
first wifo was originally buried in the neighboring village of Palmer, and durwas lost. The bereaved husband, being very exact and accurate man, would
no decention, even in an opitaph,做 after the stone was erected, he had Carved upon it the following:
of the second and third wives of William Blount
Another
Here lies the hody of Susan Jones, Whe lost her life on an heap of stones;
Her name was Smith, it was not Jones,
Her name was Smith, it was not anes,
But Jones ls put to rhyme with stones."

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Paris, Canada

## Cessip.

PROMISCUOUS BREEDING OF CATTL The above defnition is applicable to the methods of cattle breeding too much proved to me that and experience have tain the class that the best way to obtain the class of cattle one requires is individual breed considered most suitabe for one's object. Everyone who resorts The first cross of two the dark happen to produce what the breeder may at, either to improve the milking propen sity or increase the size of the carcass, and an aptitude to fatten where beef is required. Rut after the first cross comes the difficulty, and as a rule each subsa quent cross will prove disappointing, until the original qualities of each breed are quito lost sight of. Some years ago a herd of cross-breds
were found on a prize farm, which were much praised by the judges and commented upon in the press, but in a few years'after, when the herd was dispersed, they had degenerater 1nto a most ordinary herd, to use the mildest term possible. Many farmers and small breeders detest the word pedigree, but it is the abuse and-not the use of the prejigree anice. It is an old saying, "/ The
pren that hull is hall the herd," and so it would prove under reasonable circumstances; it is the way the bull is chosen and treated that often renders the old adage untrue.
Our large shows and sales of pedigree hulls are said to be conducted for the
benefit of farmers and other breeders. and a nominal reserve only is allowed in some cases to further this object, but
it is the way the bulls are compelled to
he at such exhibitions that is at fault on the one hand, and the unrational after


You might as well turn your labor into money as lose it.
Do you know that three barrels of
Bordeaux mixture, costing Bordeaux mixture, costing 26c., and
8c. worth of Paris Green, at a total cost of 34 c . each barrel, through a
SPRAMOTOR, will prevent booth your yield from practically nothing your yield from practically nothing
in a bad yar to 400 bushels per
acre? Full particulars free. acre? Full particulars free.
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much prejudice against pedigree. The saying a "c cross-bred would feed where bulls are mostly reared on new milk and
other forcing foods up to the day of ald starve," and who can be surshow and sale, and have probably never $\left.\right|_{\text {priseak and and puny, and cast a lasting }}$ been used. This may be looked over to
a certain degree where his progeny is re- stigma on pedigree, whilst it is the fore a certain degree where his progeny is re-| and after treatment (the two extremes)
quired for breeding purposes only, as it shows his aptitude for laying on flesh, that is at fault I I do not know which $_{\text {is most to blame the breeder }}$ but where milking properties are required
careful breeders will never think of buy- Possibly the latter, for if he
chauld only buy animals in careful breeders will never think of buy- would only buy animals in good store
ing a bull before seeing his dam, and
sation
condition the breeder would cater to his satisfying themselves that he is desconded
from $\begin{aligned} & \text { Condition the breeder would cater to his } \\ & \text { requirements, and if the purchased bull }\end{aligned}$ from a type of good milkers with well-
shaped udders. Now, after the pampered bull is bought, robust progeny that would satisty the what too often happens? He excetied by , unnecessary. If proof is needed of what
the neck and gets no exercise except when und required out for work, and is often fed I have said, take the improvement in the on what the cows or other cattle leave, classes
or sor "pe rough food, and expected to horns", since $\begin{aligned} & \text { Mr. Re }\end{aligned}$ R. Stratton first serve all cows as they come in season,
andl possibly those of one or two neigh.
perfection the matter, also see to what
borse hire horse has attained bors. The consequence is he sinks in
condition and has a dejected appearance,

Required Help to Move in Bed.

Was a Great Sufferer and Almost in Despair-New Hope and Strength Came With the Use of

## DR. CHASE'S NERVE FOOD.

This great food cure is doing wonders for weak. worn-out and discouraged wo-
men. $\underset{\substack{\text { man. } \\ \text { Many } \\ \text { modicicines which are proseribod in }}}{ }$
 give
hope.
Because Dr. Chase's Nerve Food actualty forms new, rich blood and increases the vitality of the body, its benefts are
thorough and lasting and its cure perthoroug
 very much run down in health and suffered from weak, tired feelings, indi-
gestion and rheumatism. At times I was gestion and rheumatism. At times I was
so badly used up that I required help to move in bed. While sick and downhearted sent for some of Dr. Chase's Nerve Food.
-" Under this treatment I soon began to Improve, and hy the time $I$ had usod
eleven boxes of Dr. Chase's Nerve Food eleven boxes of Dr. Chase's Nerve Food
I was happy to find myself strong end 1 was happy to find myself strong and
well again. I often think of what a lot
of money I spent for medicines which did of money I spent for medicines which did
me no good, and believe I owe my life me no good, and believe I owe my life
to Dr. Chase's Nerve Food. I hope woto Dr. Chases Nerve Food. ill hope as idid beneft by my experience and use Dr. Chase's Nerve Food."
Dr. Chase's Nerve Food, 50c. a box, at all dealers, or Edmanson, Bates \& Com-
pany, Toront. pany, Toronto. To protect you against
imitations, the portrait and signature of Dr. A. W. Chese, the tamous recipe-book author, are on every box.




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GĖNUINE

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any barn or farm
building. Write us for particula
LYUAN C. SUITH,

QULSTIONS AND ANSWTRS.






Veterinary.

## medering.

Colt, now four weeks old, has walked back on the pastern joint of her front leet with toes turned up in front sinco them, which we dild. The bandage has now raised sores all around the joint, tying down they are straicht, but when ahe gets up they go back as bad ever.
dififcult to the raw surfaces will make Y had belter place the joints under a
stream of cold water for about one hall stream of cold water for about one hall tion of carbolic acid and water once per
dey to heal the soreas Keep in allor aty to beal the sores. Keep in a clean
stall with plenty of sot bedding and see that the foal gets lots of nourishment.

Miscellaneous.
line fencing,
If A huys a private lot on corner of or keep fence in repair? Ont. SUBSCRIBER.
Ans.-Assuming that there is no ment to the cortrary between the parties, B must make, keep up and repair a just proportion of the fence which is to mark the boundary between GOOsEbERRY sLugs. Within the last few days, our gooseberry bushes, which are loaded with fruit, have become almost covered with
worms. Kindly give some way of killworms. Kindly give some way of killing the worms without injury to fruit or bush ? Ans.-Spray or sprinkle them with a sotution of Paris green, a teaspoonful to
a pail of water. The poison will do the fruit no harm. One could not eat enough berries to take harm from the poison on them, and, in any case, they CLover ensilage.
How would it do to fill a cement silo with clover? Will it keep? How hould it be put in? Ans.-Clover is extensively used in some siled successfully, probably not always enfaulty construction of the silos to the would not like to advise a person to put anless he had had some successful experience in handling clover this way. The
best time to cut it is just when the first early bloom is beginning to witt. Leave
it to dry a few hours until it is lighter to handle, then place in the silo. As it is
not as heavy as corn, it should be kept quite level in the silo and well tramped POISON IVY-INJURED SHOULDER 1. How can I get rid of poison ivy? end is spreading rapidly. 2. Have a colt which has been worked shoulders, draft out of place on his
and has swollen and is Ans. -1 . When the plant is dormant in with gloves to be safe, and hurn it, as it will leap out in the spring.
2. The shoulder is inflamed. 2. The shoulder is inflamed, and prot
ably pus is forming. Bathe it wit

## . MILNER W/GON C? PETROLIA

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 COMBINATION RACKS, ETC.Strictly First-class.
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Women suffer all about us with headache, backache, loss of energy and spirits, Nervous Dyspepsia and many other ailments mediately relieved of this suffering if upon the first sign of derangement she would take a dose of
BEECHAK'S PILLS
By following the instructions with each box of pills thousands of wemen ald 'S PILLS purify the blood, give strength and vigor to the digestive organs, give vim and tone to the nerves and put the whole body in a healthy condition. A box of BEECHAMS " like a in time," they will invariably have the most beneficial effect and save much future worry and anxiety.

Sold by all Druggists in Canada and U. S. America. In boxes, 25 centa

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We have a number of YOUNG CLYDES-
DALE MARES AND FILLIES for sale and any person wanting to purchase a a good what we have before buying come and see HODGKINSON \& TISDALE Long-distance 'phone in conneotion with farm.
70 miles north of Toronto, on Midland Division of G. T. R

## IMPORTED CLYDESDALES

I have just returned from Scotland with a fine lot o Olydesdalestallionsof yreat breeding andindividuality They are indeed a find lot and just the kind the coun try needs. Write for prices and description, or, bette still, come and see and be convinced of what I say
WM. COLQUHOUN
om saritinh


International Importing Barn CLYDESOLE, sHIEE MID DACKNEY STALLIOMS


 H. H

QUESTIONS AND ANSWERS. Veterinary.

COWS CHEW BOARDS, ETC. Our cows are always chewing boards,
bones, etc,
Ans, -This is due to a want of phos-
phates in the system. cive all the salt
they will take, und give one ounce
phosphate of lime in a pint of cold
water as a drench to each night and
morning, or give it in a little bran or
chop.
SUPPURATION OF LYMPHATICS
Shortly before calving a vein on the
inside of my heifer's hind leg dilated,
and lumps the size of small marbles
formed from the udder to the hock. The
inside of the inside of the right fore leg is similarly
affected. An abscess formed, and is now running, und the leg is swelled. Ans.-The vessel is a lymphatic vessel,
not a vein. The disease is a species of Slood poisoning, involving the lymphatic of the limbs. It is probable there will
lee the formation of more abscesses.
do not consider her mil do not consider her milk fit for usse, and
there is at doult whether a cure can be
effected. If fresh alscesseas fores
thent fresh abscesses form, open
theml, and flush out the cavities three
times daily with a five-per-cent. solution
of carbolic acid. unce hyposuld. phite of soda three times on
diaily. If appetite fails, give tonics, a drame doses of sulphate of ivo tonics, as astian,
ginger and nux vomica twice daily. V.

## Miscellaneous. <br> Cum eating placenta. <br>  <br> $\qquad$

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insertich and figures for two words. Names and ad
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 pros-bred poultry and egrs for sale will find
plonty of customers by using our advertisin
columns columns. No ad vertisement inserted for less Poutry, cat, dog and bird supplies. Larre
Londontologue froe. Mongan's Incubator Works,
 A. RG. AHEPRPINGTON Imporser and BERTON, ONT.
breeder of exolueively. Eggs, $\$ 1.00$ and $\$ 1.50$ per setting of 13 EGUS We offor egge for hatohing from





walter harland suith, Prop.


Cor. Simcoe and Melson Sts., Torouto.
Anction sale of Hores, Carrageo Buztioe soock


 Importad Clydes \& Shirros Shorthorns \& Yorkshires

1Nuation


GEO. ISAAC ourg station, $\begin{aligned} & \text { G. T. R. } \\ & \text { OBBURQ, }\end{aligned}$ ont.


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 THE SUNNYSIDE MEREFORDS

 SHORTHORN BULLS FOR SALE We have thre ohoiog young shorthorn bulle
no Ton offre one Cruick khank M Msio, and one


 Thorn eggs for sale at \$1 per 13. Binkham, Ont.
GEORGE D. FLETOHER,
WANTIEN: AGEINTE Lo sell for "Canadi'g Great oes Nurseries", Bilg-
ger and better seleotion of varitetios and spe-



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RAISE YOUR CALVE Blatchford's Calf Meal
 Good Bulls! Choap Bulls!


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 Shorthorns and Yorkshires



 Hiah: Shorthorn Catili Ano oxforio
 For Salei 3 SHORTHORI BULLS
 HORTHORISS. 8 goom binine, im bater


 ood romead. For pricend particulars writ Whot- these Shertherns-


SHORTHORMS and SHROPSHIRES,






 QUEENSTON HEIGHTS $\begin{gathered}\text { Choice } \\ \text { Stock }\end{gathered}$ SHORTHORNS | Stock |
| :---: |
| of any |
| gen |

Write for what you want.
HUDSON USHER, Queenston, Ont

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 Eomothing Entirely Now for the Gure of men's RleeneesTn Thele Own liomes.
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Expeots No money Unices Whe Cures You-Ilothod and Fu Partioulars sent Freefte for It Thle Very Day.





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  ;


W. G. PETTIT \& SONS Fixini ory Scotch Shorthorns 110 head in the hërd, 40 imported and 20 pare
8cotoh breeding cows. Present offering: 3 imsoorcod and 6 .pre Sootcr from imported sire
pord dam; 8 Gootch-topped from imported sires;
and and dam;
also imported and home-bred cows and heifers
of the of the mootst ponular type and breoding. A few
choice show animals will be offered. Buplington Jet. Sta. Telegraph \& Telephone SHORTHORNS AND CLYDESDALES

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 g. J. Prassoir, son a Co., Yoadowralo P. O. and Tolograph .

Shorthorn ${ }^{\text {मIIG-вRED }}$ Cattle
 Present offerings: Young stock, either sex.
Fordeserition etc,
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65 FRONT ST. EAST, TORONTO.

The French horse Gouvernant's position recalled to the London Chromicle Sir William Harcourt's repartee when Glad
ateur won the race for France in 1865 . On that occasion Frenchmen present a
Epsom went wild with excitement shouting," "Waterloo avenged." "Yes," said Sir William Harcourt, who
was standing near, " you ran well both times."
Messrs. John Dryden \& Son, Brooklin, young. Shorthorn bull to Mr. A. D. Patterson, of Ladner's Landing, B. C.
through Mr. Paisley, the Secretary of the Live-stock Associations of that Province. The bull is named Archer's Last, and by Imp. Collynie Archer, and is the last of his get in Mr. Dryden's herd. Acut
of him is shown in another column of this issue. Mr. Dryden reports that he isull, as he is ovidently of show-yan matarial, but Mr. Paisley was so in-
sistent that his.offer of $\$ 500$ was accepted. He belongs to the Cruickshank Brawith Bud family, and, as the ex-
tended pedigree shows, is full of th choicest Cruickshank breeding. He io very deep and blocky, is collkr hair and has, as the cut shows, a splendid short horn head. He is good throughout, and has practically no faults that are wort
mentioning. We think that Mr. mentioning. We conink to
son is to be congratulated on having se cured so fine an animal. His appoarance indicates that he is to be a bull of con
siderable character and prepotency.
increasing farm income.
Farmers generally are sound, econom-
ical business men. They are cautious speculative ventures and rely on increas ing their income by systematic improve
ments in farm management. While ther is an increase or decrease in the number
of failures annually in commercial tures, it is an anomaly for a farmer to
become bankrupt. The few failures re ported are generally restricted to specu
lative investments in high-priced thor ough-bred stock, the rise or depreciatio aim of the farmer is to so conduct his
agricultural operations as to increase the average income per acre of his farm.
The farmer bas many advantages over the inhabitants of cities, in that he has
no rent to pay for housing his family, and usually his fuel is obtained on the iarm. In municipalities one great item
of expense is rent, which the farmer olviates by owning his estate. Th
farmer obtains his mill, butter, vegetables, eggs and poultry on the farm, so
that rent and the cost of maintenance of the income of the farmer is much larger
than generally rated. If the dweller in a city receives a fair salary it is nearly
all expended for rent, fuel and table ex-
penses in which particular he is at penses, in which particular he is at a
great disadvantage to men who follow agriculture.
The fact that farm lands are increasing in values, particularly in the vicinity of
large cities, demonstrates that their inlame capacity has been augmented. of
comerse
course the increased income is largely course the increased income is largely
due to enlarged operations. The farmer
is keeping more stock and poultry or is devoting his holdings more to products
that command good prices in near-by that command good prices in near-by
markets. The farmer is striving to en-
rich his land, and thus double his income without increasing his holdings. He
no longer is satisfied with mediocre in no longer is satisfied with mediocre in
his stock or field crops. If he operates a dairy he aims to keep better than the
average cow. average cow. If he raises vegetables
for market, he selects the best varieties
and by intensive dities that always are at a commowith épicures. All his operations are
the result of careful calculation aims to work out his plans methodically. season he is always on time in planting his crops and economically utilizing hired ciously manage labor so as to make profit out of his employees is certain to
increase the earning capacity of the farm. in a his agricultural operations he has
solved one of the most difficult problems solved one of the most diffcult problems
in increasing the income of the farm.

JUNE 30, 1904
Societies Owning Stock. Mr. A. M. Stewart, of Dalmeny, Rusship of Osgoode Agricultural Society, rn
 tendent of Agricultural Societies, that
the society owns three bulls, two which are Ayrshires and one, a Short-
horn, twelve rams and four boars. The horn, twelve rams and four boars. The
sheep are mostly Shropshires, but in$\begin{array}{ll}\text { sheep } & \text { are } \\ \text { clude } & \text { mostily } \\ \text { Leicesters and one one }\end{array}$ Down. The hogs include one animal each of the following breeds: Tamworth, Yorkshire, Berkshire and Chester White.
These animals are located in five differThese anmmals are tocated in five differ-
ent sections of the township. Any twelve farmers in the township, who will agree to pay $\$ 2$ each for three years and
take proper care of the stock, will, on take proper care of the stock, will, on
reauest, be furnished with a pure-bred request, ram or boar by the Society, or with all three, if they ask for them.
Generally only one animal is aked Generally only one animal is asked for
the first year, more being takem after this subdivision of the main Soclety has become well established. If the Soclety appointed to purchase them. Some bull have cost the Society as high as $\$ 400$ Goor bulls cost, int least, $\$ 100$ lald down at Dulmeny. The Soclety han medal at such, exhibitions as Toronto.
" In the past," cont " we have always been able to furnigh all the animals asked for. If a local
section asks for three animals, the Soclety loses money; but if they only ask for one animal, we generally make a Mttle. The $\$ 24$ recelved each year from the twelve farmers forming one of these
sections, torether with the Government grant we receive and a ilttle extra funds which come in in other ways, generally enables us to meet the expense of keep-
ing the anlmals.
Sometimes we have ing the animals. Sometimes we have
been forced to go into debt, while at cther times we have had as thuch as two or three hundred dollars to the on hand, with the Government grant Some vears ago we have had as six boars. At the end of rams and years, these breeding andmals are changed around from divishon to divtsion to prevent inbreeding. When the itreeding stock has passed its usefulness, comes back to the Soclety. Members have the use of a ram for all their sheep, and of the boar for two animals to breed four cows durlng the year, and (1) the bull is not used much, members nan who keeps the more cows. The him for all his stock. The the privilege is allowed the man who heeps the ram, and he also gets the ram'e fieece extra. Twelve to $\$ 20$ a year is
allowerd the man who keeps the At one time this soclety paid members as much as $\$ 10$ a month for keeping the bull; memhers also had the use of the hull free. This was found to be too
nuch of a mood thing for the man keepmuch of a pood thing for the man keep-
ing the bull, and the Society soon got ing the bull, and the Society soon got
Into disrepute and membership fell off, unt11 the Soclety was partially dead.
About ten years ago, we changed this About ten years ago, we changed this method, and adopted the present system,
which has worked admirably. We pay about $\$ 20$ for our hogs when they are six months old, and $\$ 20$ to $\$ 35$ for our rams." Mr. Stewart believes they have
done more good by keeplng pure-bred done more good by keepling pure-bred
stock than they could have done by holding a meeting yearly. Any man who keeps any of the stock, must do so sub-
ject to inspection by some member or lect to inspection by some member or
members appointed for that purpose. There have been occasions where it has been found necessary to take animals
away from members, but not of away from members, but not of late
years. Drummond Agricultural Soclety, In
Lanark County, owns two bulls, a Shorthorn and an Ayrshlre, also boars and rams. The bulls are boarded
around at the rate of $\$ 3$ a week during June and July, and for $\$ 3$ a month during the rest of the year. The keep about $\$ 54$ each per year. The men hoarding the animals have the use of them for
their stock their stock. The bulls are kept at three aifferent places in the township, and
about every three weeks they are moved around to suit the convenience of the
members. members. Members are charged $\$ 1$ each (Continued on next pque.)

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helfors ooming into milk, make make the above

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 April 12, 1900. His dam, Maggia Keeves 2ative 3year old, the largest ever made at year ase
xcopt bv her own dam- 824 Ibs. nilk in a day xcept br her own dam- 8zt lbs, nilk in a day

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shep. Berkshire pipz Toulouse geese and Buff
Orpington fowls. Prios reasonabie. MIGH-CAEB A FTYHIFE CATTLE

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[^1]:    

[^2]:    Agriculturists for South Africa. The Government of Orange River Colony has se-
    cured the services of two Canadians, Mr. E. J. McMillan and Stewart Galbraith, to look after the ex-
    perimental work with field crops in that colony. Both are graduates of the O. A. C. Mr. McMillan has been Tor several years Secretary of the Department of Agri
    culture of Prince Edward Island. He will now have culture of Prince Edwand Island. He will now have
    charge of the Experimental Farm of the Orange River harge of the Exparimental Farm of the Orange River
    Colony. Mr./Galbraith graduated at the O. A. C. this year. He will superintend the Orange River field plot experiments. Both men are well qualified for the posi-
    tions in South Africa. They have gone to St. Louis to tions in South Africa. They have gone to St. Louis to attend the exhibition as the representatives of ne
    Orange River Colony, with a view to gathering new
    Idcas that may be of advantage to them in organizing the work that has been placed in their hands. They
    will sail from New York early in July. will sail from New York early in July.
    Mr. W. J. Palmer, B.S.A., Iate of Toronto, now
    Director Srector of Agriculture for the Orange River Colony South Africa, has by Imperial order been appointed a
    member of the Joint Leglisititive Councll of the Orange
    River and Transvaal Colfonies.

