## PAGES

MISSING

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## EDITORIAL.

"A Little Farm Well Tilled."
One of our correspondente, J. F., Perth Co.,
Ont., in this issue starts what should prove a Ont., in this issue starts what should prove a
helpful discussion on the subject of small ve. large farms. There is no doubt that the fertile soil of ing anything like the rural population of which it is capable, in comfort, and its productiveness in grain, fruit, animals and their products is unquestionably far below the limit of which it is capable under a more thoroughgoing system. A season like the present, broken by frequent showers, emphasizes many of the difficulties that arise in trying to farm too large an area, such as obtaining satiofactory help for harvest, combating weeds, and also performing the general farm labor, than in the earlier days. In England, after the fall in the price of cereals, a larger proportion of land in the price of cereals, a larger proportion ontland
was laid down to grass for fattening catte and sheep, and a smaller proportion kept under cultivation and the work more thoroughly done. The subject is a live one that will bear discussion, and the wide diversity between the condition, crops, and net returns of farms, the natural conditions of which are not at all unlike, indicate very plainly the nany tillers of the soil.

A Tuberculin Canard.
A number of alarmist articles have been floating about lately in local weekly and daily papers regarding tuberculosis in Canada, and the warning statement made that compulisory legisiation for tubercutn testing, in early day. We Cava the authority of Hon. Mr. Fisher, Minister of Agriculture in the Dominion Government, to state there is no such intention whatever. A thoroughly informed and practical man, favoring educationa methods, with liberty of individual action, the present Minister of Agriculture knows that how ever it might work with the peasants of European cher unheal if it were necessary, which it is not.

Protecting Farm Buildings from Lightning. We regret to record that many valuable barne and other outbuildings have been destroyed thit season by lightning. Whether in the aggregate the losses will exceed those of previous years, we are unable to state deinine in the subject of light noug the mare ning , while others have become disgusted with sceptival, what in consequence of the rascally way
their very name in which they have been fleeced by agents. The records of insurance companies, so far as we have been able to learn, and the conclusions of thos whose investigations best qualify them to form a correct juagment, are favorabie to the use of rod properly constructed and maint this point. Next comes the question, can farmers properly rod their own buildings, and at what cost? This was answered in our issue of August 2nd, page 333, where Mr Thos. Baty described in detail the whole process of putting up 240 feet of rod, which two men did in a day and a half and at a cost of $\$ 4$ for the galvanized wire forming the rod, and say $\$$ for the labor- $\$ 7$ in all. We gave in the same issue the Chief of the U. S. Weather Bureau, and in this issue Mr. J. W. Robson reviews the whole subject and gives our readers the beneffit of many years' experience, study, and observation, so that it has now been very thoroughly covered from all
standpoints.' If the reader is convinced of the
theory of protection from lightning, he has before him in the articles referr the probable cost will be On the latter point we might add that agents have been putting up rods this season in the same part of the country, for which the price was some 22 cents per foot, including labor, or over seven times what it actually cost Mr. Baty to rod his barns, and of far as appearances go and the way in which the much superior job. Time will determine their comparative utility and durability.

The Royal Commission Reports
The report of the Royal Commission appointed yy the British House of Commons in ligate the causee of the depression in agriculture has recentily been art filling a blue book of 370 laborat dith a great many points with pages, dealing which have no interest in common, and we make use of only such passages as seem to be of at least passing interest to Canadians. The Commissioners agree that the depression is mainly caused by the heavy fall in the prices of agricul tural produce. They have arve general conclusions on this point

1. That the changes in the prices of grain during the past twenty years represent a anil or verr
per cent. in the three stap
cent. in the the case of wheat. , the price of beef there has been in the
2. 

same period a fall ranging from 24 to 40 per cent. same pang to quality.
3. That the prices realized for mutton since
1832 84 have exhibited a progressive decline of from 188284 have exhibited a prog 20 to 30 par chant. has been a fall in the price of wool amounting to upwards of 50 ${ }_{5}^{\text {past twenty years. }}$
depreciation, and that, takias part the changese in the the deprices of millk, butter, and cheese as a w.
has been a fall approaching 30 per cent.
has been a fall approaching 30 per cent. referred to has been accompanied by ad decline o at least 20 to 30 per cent. in the price of potatoes.
7 . That although there have been fluctuations in the prices of hoose, theng have exhibited in recent the prices of hops,
Years a general tendency to fall to an unproftable
level
 The concluding sentences in the report are as
follows: "The grave situation we have described
 is due to a long-continued fall in prices. This
is attributed by the great majority of witneses to is attributed by the great as previouslly pointed out, we have not been, able to find any promise, in the
we
near future at all events, of a material relaxation near future at all events, of a material reaxation
of the pressure of this competition upo the Brition of the pressure ofr, then, as agricultural depression producer. So dar, uen, we must regard it as prob-
is due to
able that the depression will continue and that
 here will be a urther suceptible of profitable arable cultiVation, together with a corresponding contraction
of our of our prod.
population.
This is certainly not a very cheerful finding, and he Commissioners have evidently not seen their way clear to adopt the view held byte Presided of the Board of Agriculture as recenty expressed that the colonies and oreigh prices fell below probably limit he cos seem to be over-sanguine since the colonists nd the foreigners have large supluses in many ines that must be marketed however unsatisfactory the returns may be. The report is decidedy pessimistic in its tone, and its suggestions are evidently advanced more as paliliatives than as iikely to prove a remedy for the existing state o
and depression from which Commissioners intimate especially suffering. The ced almost unanimously hat the main features of their report, yet upon the upon the main remedy for the chief cause of the depression there is considerable difference of
opinion, and that subject is accordingly left to be dealt with in separate memoranda. A supple mentary report is presented by ten members of the Commission, including Mr. Ohaplin and Mr Long, who see in the gold standard a principal in favor of a reversal of the monetary policy of the in favor of a reversad ocument a conference of the powers is recommended to consider the subject of international bimetalliem.
The Cummissioners devote considerable attention to the question of railway freight rates, a subject in regard to which our sympas as follows. them, and have given evidence upon the subject that it is one have given eviennee upon the suber
of very
reat importance to formecrs, who, while suffering from the the fill in the velue of their
ond producta, have found littie or no reilie in the rates
charged for their contion is well
chown nown that in fixing rates railway managers have value of the article carried. The whole question affects national as well as class interests, and han it has yet received."
To guard against the sale of adulterated prodcts, and of imported goods as home produce, the the Food Produots Adulteration Committee bearng upon agricultural produce should be carried ito effect by legisiation, and that the recommendation of the House of Loras Commilcee for egistering dealers in foreign meat should aiso be iven efec satem of selling cattle by live weight.

## The Proof of the Pudding.

It has no doubt been a puzzling problem to many breeders and feeders of hogs in the United trates, and perbaps to some in eanadi, for about 2 per 100 lbs. live weight higher in the Toronto 2 per 100 libs. market than the highest prices that city seems to have solved the problem to its own satisfaction, as ndicated by the following quotation from a late issue of that paper :
"The Canadian packers could buy many hogs in Chicapo at $\$ 4.00$ that cost them $\$ 600$ in Toronto, bat they coulant seil the prod hained such an enviable reputaion.",
And in another paragraph in the same issue an for this mifference in prices by arguing that owing to the peculiar manner in which the American hog gets his living a comparison of results is not necessarily so unfavorable as may at first ight appear. The Drover's Journal goes on to saz:
"Canadian bacon manufacturers are making
 culty in selling them in competition with United
States bacon in England at prices that justify them in paying farmers $\$ 2$ per 100 lbs. onore for hogs, iive weight, in Toronto phan our pacckers pay for or beest bacon hogs at Chicago. On Friday, August 6 , a
report of the Toronto bacon hog market was as fol-

 the prices for selected 180 to 180 ib. hog. A comparison of results looks very unfavorabie to sidered he probably makes more money out of his
hog hogs than the Canadian farmers who can get
ger 100 lobs. more for what they grow. The Cana.
join jian farmer engages in mixed husbandry, and
while he grows alitte of everything, he does nothwhile he grows a litite of everything, he doos noth-
ing on a large ecale. He raises perng
ing ing on a arge scale. He rairse perfape one athe on
of ifigs, and having no carre grain feeds them on
milk, peas, roots and grass and his expense milk, peas, roots and grass, and his expense ac-
count is much larger than that of the United States hog grower, who can feed cheap corn to his
cattle and fatten his hogs on what the cattle do not cattle and fatten has hogs on what the cattle do not

(Continued from page s..)
grower in $\$ 4.00$ hogs at Chicago than in the $\$ 6.00$
hogs at Toronto, but' the fact remains that our hogs at Toronto, but the fact remains that our
people ought to mend their ways and grow more choice lean bacon hogs. Corn, while being the
cheapest feed, is too fattening to make good bacon cheapeas feed, is it is used exclusively America bacon will not be able to compete with Canadian bacon in the English markets."
The secret of the more favorable comparison is put in such a delicate way that those unfamilia
with Western methods of feeding may fail to per with Western methods of reed " the United States hog grower can feed cheap corn to his cattle and fatten his hogs on what the cattle do not assimilate. The italics are ours. This will be quite intelligible to the dweller in Hogland who knows that there the signal to meals for the porker is the elevation of the switch of a steer, and the Western hog knows as well as if he had human sense that "the proof of the pudding is in the eating of it, and
our neighbors need not wonder if in these days of easy communication the English people have "got on to the racket" and decline to regale themselves on bacon evolved from previously unassimilated matter, however cheaply provided.
The filthy wholesale methods pursued by West ern States farmers, whose big herds of steers, con suming whole corn, are followed closely in the feed lot by hogs, are not wanted in Canada. No late the result of a careful investigation by the FArmer's Advocate into the Eisex Co. swine disease was published, we took occasion to warn farmers against the adoption of the Western system. The truth of the matter is that Canadian bacon has attained its present pre-eminent position because
of the intelligent attention paid for 20 years back of breeding the proper type of hog, managing and feeding it according to cleanly and rational methods. Big, fat-backed hogs, lower prices, and hog
ready for sale about Christmas; other lots are fed
in the same way and sold as soon as read. In this way he fattened 40 head last winter. In the piopt
a few good Shorthorns also have been reared upon a fow good
this farm.

Smaller Farms.
It is a by J. F., PERTH COUNTY, ontario
It is a common saying that Canadians are such abusy people that they devote very little time to which they are engaged. This remark applies in to farmers as well as to merchants and manufacare engaged in agricultural pursuits of those who whatever to the study of their profession. many cases the reason for this negligence is attributed to the great amount of work that has to
be done on the farm. And many of the difficult that they have had to contend with during the past few years have been caused by lack of knowlofge and mismanagement of the business. Much
this trouble could be avoided if farmers would onsider the question of working smaller farms. Although we have entered upon an era of pros-
perity, I believe this question is worthy of the consideration of every person interested in the advancement of agriculture. Few men in this on business extensivel y without the aid of bor rowed capital. The system of borrowing money,
although very useful when judiciously managed, has been the means of ruining hundreds of farmers financially. A great deal of the capitarm-
vested in land has not realized the rate of interest vested in land has not realized the rate of interest
that had to be paid for the use of it. This state of affairs has produced unsotisefactory results. The farmers who have been obliged to borrow in this under different circumstances. They have em ploved less help, and consequently the land has suil, and from want of cultivation. Crops began to one the following season. The revenue from the sale of stock decreased yearly, and with it that obfertility of the crop. And not only this, but the crease in the value of the land.
Seldom has this happened where it was un-

view of the homestead on the fine stock farm of robert shortreed, esq., gueliph, ont.

While at the Exhibitions.
During this brisk season of big crops and better prices we want good, energetic agents at every canvass for the FARMER's Advocate. It is so favorably known and so highly spoken of from one end of the country to the other that agents can put on two or three times as many names for it in a day or week than can be done for any other paper. Handle the best. It is easy to canvass for a paper that the people read because it gives them progressive, practical, up-to-date matter, worth
actual cash to the farmer, for whose interests it stands every time. Write for sample copies and our liberal terms. The present is the opportunity of a lifetime. Do not let it slip.

Act Immediately.
We desire every one of our subscribers to make an effort $t 0$ send us one or more new subscribers to some friend or do you not know some other farmer, breeder or dairyman in your neighborhood who does not get it and who would be interested and benefited from its reading. Our subscribers often tell us when paying their subscriptions that they consider the $\$ 1$ they pay for the Farmer's AdvoCate the very best investment they make. However highly our readers may esteem the it is not yet paper is giving them, we may say that in the way of increasing its circulation will help us to reach highwater mark, and all will be benefited. We propose now to give to new subscribers the re-
mainder of this year and all of 1898 for $\$ 1.00$. mainder of this year and all of 1898 for $\$ 1.00$.
We do not ask, your services for nothing, but will allow you some valuable premium for your trouble.
We allow liberal cash commission. Write to-day for sample copy and terme.
er has to pay for the wholesale methods which the Drover's Journal thinks enable him to make more
money than the C'anadian farmer, which we think, however, is not the case.
Mr. Robert Shortreed's Gold Medal Farm. Among the illustrations that adorn the present ing the homestead on the stock farm of Mr. Shortperd is typical of what has been accomplished by the gold medal farms of 1889 in the Province of Provincial Agriculture and Arts Association; it is situated two miles west of Guelph. One hundred
acres of it was first wettled in 183 hy the late acres of it was first settled in 1834 by the late John
Shortreed, but since that time 1.00 more have been Shortreed, but since that time 1.50 more have been
added, and is now owned by his son Robert. The outbuildings comprise one main barn $71 \times 81$, an-
other $60 \times 60$, also a hay barn in the rear $6 \times 5 \%$, other $60 \times 60$, also a hay barn in the rear $26 \times 52$, and
a stone horse stable and driving shed $: 310 \times 60$, The a stone horse stable and driving shed :31 $x$ (60). The
dwelling, too, is a commodious and handsome dwelling,
structure.
Mr. Shortreed's method of farming is the grow-
ing of coarse grain for feeding, principally ing of coarse grain for feeding, principally oats and
peas. He also grows turnips, mangolds, Indian corn, and rape. The land intended for the roots is manured as soon as posisible in the spring. If the
grass is good through the summer, steers averaging about 1,100 pounds are bought, if not they agnot bought until the rape is read
rape is done the cattle are rape is done the cattle are
stable 54 head. He feeds
timesper day, Me feeds oat with chat
Turnips are also fed thr
the meal, then hay twice pe
fed as much of each as they ce
water at a trough in the yar
a windmill to the south of th
to the left of what appears in to the left of what appears in
the cattle are at water the s
with a horse and boat.
necessary to borrow money. There may be cases
where men have succeeded on borrowed money;
but this article is written for the benefit of those but this article is written for the benefit of those
who have met with misfortune.
almost unlimited Agriculture offers scope for almost unlimited
improvement. In no calling can skill and knowlimprovement. In no calling can skill and knowltilled and thoughtfully managed give the most satisfactory results. More attention can be given tance. Less capital is considered of minor imporfarms. The owner, having no interest to raise for verything-lender, is enabled to purchase nearly cerything rectuired for cash. It is easier to plan season on a small farm. And the man who "can make two blades of grass grow where only one him success inas solved a problem that will ensure It is not customary to farm
red acres in the older provinces, except in the fruit districts. If farms of from twenty five to laboring classes in the towns and cities to purchase land. This would avoid a serious question that is the large demanding the attention of people in to show itself in Canadian cities, and now is the population the question of "the unemployed" will be certain to attract attention.
No doubt many will advis
No doubt many will advise those who cannot purchase hundred-acre farms in the older provwho have a fair knowledge of agriculture. Those
who have but a slight idea of the business will do who have but a slight idea of the business will do
much better on small farms in settled districts. much better on small farms in settled districts.
The difficulties with which they have to contend in a new country are very trying even to the men he believe that it would be more profitable for the people living on the fertile lands of Manitobas are in the habit of doing. It must be very dis-
in that country running almost wild with weeds
from want of proper cultivation. $\begin{aligned} & \text { more than a few days hatched. We also saw one } \\ & \text { large flock of wild geese and a few scrawny coyotes. }\end{aligned}$ from wancuntry holds a favored Our country holds a favored position amons
the nations of the world, though it is only a short thime since we were recognized as a nation. Many
people in this country were of the opinion that it people in a matter of a few years until we would be
wasonl a
and annexed to the United States. Numerous schemes
were suggested for extending our trade with that werestry. Nearly all have fallen through, and we have found markets elsewhere for our products Our trade has been gradually developing with
Great Britain, and it has been greatly assisted by the new Canadian tariff. Our gold mines have attracted the attention of outher countries But though we have lands rich in minerals, Canada wi always be known as an agricultural country.
will be wisdom on the part of those engaged in farming to study closely every detail of the profession. While foreigners are flocking to our gold
regions, let farmers take advantage of the situaregions, let farmers take advantage of the situa-
tion to show them that our agricultural lands are capable of providing good homes to thousands now in a miserame must not be to have a large acreage under crop, but rather to
every acre under cultivation
A Tour Through the Northwest Territories.
(editoral corrabponvenct
At last writing we were about to leave Virden

Calgary. This distance, 660 miles, was covered in twenty-six hours, including many short stops at small stations, and to take water, as well as two first five hours' run was made during the night, when much good country wass passed. The rainfali this season has been unusually light, but still the | wheat crop is fair, and was rapily ripening. The |
| :--- |
| great Indian Head wheat district and N.-. T. T. | great Indian Head wheat istrontrict and We passed it on our way west, but stopped off a day on our

return trip. Harvest was just commencing -and return trip. Harvest was just commencing - and We saw wheat, wheat,
oftenr as far as
ane ofter as far as one
could see. Of course, there were the sum-
mer-fanilo ws, hay
patches, and mall oat
areas, but wheat was areas, but wheat was
the crop most in view. There are $v$ ery few
fences, and scarcely a tree except along the
Assiniboine River and occasional small rav-
ines, besides the flourishing belts on the The average height of the wheat crop was some good fields stood quite four feet high, and as thick and
heavy as culd well itwas estimated
would go well up to would go well up to
forty bushels per acre. One can well under hundred acres of what
is known as the Hull
innch It is a valley

 of cattle ranch. The
irrigated portion is
cultivat irritived pormpl to
curtivated simply to
grow for win
ter and for horse feed thr and for horse feed.
The hay is made from the haty, Brome grass
and oats. The oats
oit were in places nearly
six feet hilah, and just six reel regh, and juat
about reay for cut-
tiog green the thime
of tur visit Timothy of our visit. Timothy
and Brome graas
just beine
harvested and were quite heavy.
The latter is the f.
vorite by Mr. Hull. It is morer leaffy pro duceB a greater atter
inath, and will not run out so soon as tim
othy. All these crop stand that there was considerable anxiety at this time for far or fros and depreciate or destroy the crop. One evening previous to our visit the chermo heavy storms were which made men anxious, every day. A shortage seen going around almost devery
of good water is a sad draw back the people seen to get along fairly well. The main source kept
supply is in the small ravines, which are wat dammed so as to catch and hold all the snow wat on and rainfall and the surface eaterer by leaching through
the flate, and becomes filtered and whole expect.
much better than one would
We would like to say much about the Experimental Farm, but it is already quite familiar $\frac{m}{\text { most }}$ Director, gave us a hearty welcome, and every Director, gat inspect the various departments.
advantage to mere in fine condition, and almost
Te grin plots weriadvantage lots were in fine condition, and ammost
The grain plo
ready for the reaper. Here, as at Brandon, arboriready for the reaper.
culture receives much attention. The deep groves
and along the west and north boundaries, numerous double grounds, and field,s, furnish a refreshing iles in every direction.
One of the Government creameries is situated here, but is not making a large quantity of tot is ter dry for much dairying; in fact, farmers that can grow whean successint and Rush Lake, a distance of
Betwwen this point ais litle to be seen except apparently boundless stretches of arid country, parched and bare except for a light covering ond
brown grass, sage bush, and the like. Here and brown grass, sage bush, and the bearing a dirty
there an alkali lake was passed scum or perhaps entirely dried and white as snow
with salthike alkali. Several fairly clear ponds lie
lie ang the track, an of wild ducks, some of which various varieties of will
were little downy balls of yellow fluff, perhaps not
 Lake, the prairie grass becomes more luxuriant, but still t cuite dry. A little further on we passed a well-
fenced 10,001 acre ranch, on which could be seen a number of small bands of horses in fair condition. This is the beginning of the ranching country, which
is evidently fairly continuous right through to the is evidently fairly continuous right through to the
base of the Rockies. Great bands of sheep could be been, which appeared tro be in fine oronhitiop in in spite
sen
of the very dry pasture. While they had access to of the very dry pasture. While they had access to
fresh-looking flats, they were feeding on the dry knolls. We saw a few bunches of cattle, but the large herds were farther back from the railroad.
Maple Creek, lying some 100 miles west, is also the Maple Creek, lying some 100 miles west, is also the
seat of a Government creamery, and is making seam of a, 000 pounds of butter a weak, shipped weet
son either to the Calgary central cold storage or direct to Revelstoke, the distributing centedine Hat Some 65 miles west is Medicine Hatquite a businesslike town. The C. P. R. Co. have atute beatifusu garden here, growing with great
luxuriance by irrigation all kinds of vegetables and luxuriance by irrigation all kinds of vegetables and
flowers, besides pretiv rows of trees and a patch of
Hreen corn some six or seven feet high. We left here just at dusk and seaw no more thil daylight
found us in the beautiful city of Calgary, from found us in the beautiful city of Caldary, from
where a grand view of the Rockies, eighty miles where a grand view or any clear day. Here we distant, can de hays, which we would require The points of especial agricultural inter storage, two irrigated farms, and two immense ranches.
The creamery plant is one of the finest we ever
saw. It was bonused by the city and buitt by a sompany some few years ago. As it did not prove successful under this management, the Dominion Government rented it for thre years and put in
the $\$ 800$ cold storacage. It it on under the peneral
the

storeroom walls and floors is worthy of mention,
A match can he lighted upon them at any time in fact, they are as dry as the interior of any superstructure where no ice is kept. The butter
made at the Calvary creamery is being salted lightly and packed in 56 poound spruce boxes for the British market. Mr. McDonad takes a great deal of pains and is succeeding wel In iproxpected
an even and fne quality of goods. It it
to use this cold storage very soon for B. C fruit to use this cold storage very soon for B. C. fruit
going east and dressed poultry going west, which goilg east and dressed poultry going west, which
will be treat boon to producers and consumers
both east and weest. both east and west.
Irrigation is just in its primary stages in the
Calgary district. Although there has been conCalgary district. Although there has been con-
siderable rainfail this season, it is usually so dry that mixed agricultrure cannot be suocesesfully carried on without irrigation. It would be difficult to find a more favorable combination of circum-
stances for irrigation. The main ditch, which was, unfortunately, washed out by recent floods, has its source some twenty miles towards the Rockies, in Bow and Elbow rivers. In this dilstance it
about 500 feet fall. Far less. would, perhaps, be
 water to be brought in. In this way a tremencous
 tream, but in a few weeks the main channel will be drawn upon owing to the late destructiond his supply dre a con ioincing evidenee of the value of
fields are irrigation. Each field or plot has sma the level, surrounding them, a little highar than the level,
and opening at regular intervals into channeli in
he fills. There il also a small reservoir just at the opening at regular there is also anmall reservoir just at
the fide.
the edge of the farm, in which the water has a the edge of the farm, in which the wat wir has an
chance to warm up in the sun before it it ised on
and the land. Grain, hay, vegetables, flowers and shrubs were all growing with great luxuriance, and e proprietor is very sanquine over the future
district when artifcial watering becomes

The other irrigated farm
sist of two Clydedales, one Shire, two Coach, one $\quad$ adapted for cattle, sheep, and horse ranching, and, Thoroughbred and one trotting-bred horse. They could buy, and all of fancy breeding. The brood mares comprise some 350 , and of decided types,
suitable to breed from the above sires stock to uit all the special-purpose lines. The result is among the yearlings and two-year-olas can decide at once for which class each one has been bred The ressult is, Mr. Robinson never has to hold ove hesitation in believing that very good show animals could be taken right from the ranches which
with a little fitting would capture good prizes in many clasees at the best horse shows in any counproce che day we spent on this ranch the whol with, and before leaving we were driven behin rope or halter orer the dair heads. Nuestion never had we also saw wild cattle captured and secured as in it. It was an interesting day which we shall not soon forget, and a pleasant part of the recollection
is that no cruelty was exercised. By the method racticed, a very wild coltis halter-broken, ridden skin an inch in diameter being knocked off either
the men or the colt. Mr. Robinson has an ideal ranch location, there
winter pasture, abun-
dance of water, and dance of water, and
deep wooded ravine a deep wooded ravine
for winter shelter in barny weether. His
ould be desired, as
outhat
ond
 gonse, which is ele-
gurnished and coupied by an accom-
lished family who purnished a p ploasant
cours diversion and musical entertain-
ment of solos and duets on piano and tringed instruments. anches one would require as many days,
jecause of the areas ocover and the hos-
itality of the proprietors of the proorthward the Cal Railroad, now operated by the Canadian Pacificas a branch iles to the ank of the North ite the town of Ed-
ind
For the first fifty or sixty miles out Galgary the country nediately adjoining the town. Northward he soil seems to berainfall more generous, judging by the ess of the vegetation. buffe occur at itrequent intervals, and ocasionally some spruce, as one proceeds north-
ward. Not much cultivated land is to be slong the line of rail, but around Innisfail, Red oonton considerable land is under crop Ed although unable to make a personal inspection, we earned that the crop prospects were exceedingly Ithough of small area, were heary, although rather ate ; some were very poor ; but without knowing hae conditions under which these fields were cultivated an intelligent opinion could scarcely be
formed. However, we judge the country to be well adapted to mixed farming, and the growing of oats, fodders, etc
ong the line creameries have been establishe on Government Dairy Commissioner, and, for the frst year, are doing encouracing work. The one at Edmonton is now making 1,900 pounds a week
Wetaskiwin, 1,$200 ;$ Innesfail, 2,500 Red Deer, 1,000 with every promise of a much increased outpu rom year to year as patrons develop their herds, undred miles, a branch line is also operated by the Canadian Pacific. It was busily engaged haulng horses, men and material to the Crow's Nest Pass R. R. construction at the time of our visit.
Along this line on either side for a considerable distance either way lies grand ranching country,
much the same as around Calgary. The rainfali much the same as around Calpary. The rainfall
has been light this season, so that the grass is dry and cured, but the animats were all in fine con
dition. Much of this Western section is peculiarly

the shire stallion markeaton royal harold 15225.
appremented by the irrigated areas to pros tios for winter feeding, is likely to hold
J. B. S. sway for a good many years to come

## STOCK.

## Pure-Bred Stock for New Brunswick.

On several occasions in the past the New Brunswick Government has sent representatives to visit
the larger breeders of $\mathbf{O}$ atario and elsewhere to he larger breeders of ontario and elisewhere tributed to the agricultural societies, and by them
sold under certain restrictions as to use and keepold under certain restrictions as to use and keepl-
ng for breeding purposes.
over a year ago a couple ng for breeding purposes. Over a year ago a couple
of hundred suyerior pur--bred ewine of different orrees were selected in that waw, and the result
broving very satiffactory three other delegates proving very satisfactory, three other delegates
tarted west on August 19th, stopping off at the Eastern townships, P. Q., and then coming on all the way to Weestern Ontario in quest of Ayrshires, Jerseys, Holsteins, and Shorthorns in cattle, and
long and medium wools in sheep. The numbers to ong and medium woois in sheep. The numbers to be purchased depends on the quality and prices
prevailing. The dees are
mon. $L$. P. Farris member of the Government; Chas. L. Smith, M.
P. P. for Carleton Co. and Thos. A. Peterg
 resume they will avail themselves of the excep tional opportunity of visiting the larger exhibitions,
such as Toronto, London, and Ottawa, as well as breeders at their homes. Trogressing in New Brunswick whiness is steadily y the improvement in prices : the phaturaged continued good, so that the delivery of milk has ther improved instead of falling off at this season, as is generally the case. The hay crop is better ittle short. The grain was very promising, but eary rain storms have injured it to some extent. ot easily determined yet. Root crops look well nd promise a large yield.
Corn as a ripened crop but as a green fodder crop is of taken into account, The late spring interfered with the quantity planta, the pastures fail. The dairy business is is hevelt a great influence on this crop, and thess build having
silos will become general in the near fuutre silos will become general in the near future. The
money received from the cheese and butter made in the factories, now becoming general, is having a marked intluence, and this is the origin largely of the desire to improve the dairy stock, which is sure cannot improve one class of farm stock without the other coming in for a share of benefits in a
similar way. similar way.

## Our Book Premiums.

The attention of our readers is directed to the plendid list of volumes on agriculture, live stock
breeding, manapement, etc... offered elsewhere on
pecially favorable easy terms.

Clanagement of Public Sales.
The first essential to success in a public sale of penigrea the second is to have the stock in first-clas
and condition. Good breeding is important, and fashionable pedigrees are certainly helpful, when merit presented in blooming condition. But no matter how well-bred the stock may be, nor how pure the pedigrees, if the animals are inferior in staring coats, the pedigrees will fail to charm the eloquence of the auctioneer will fall flat on his audience, and failure may be written down in ad
vance of the date. If ever it is true that what in worth doing is worth doing well, it is in the prepa ration for a public sale. To offer stock at auction in poor condition is to court failure and to ensure
dissatisfaction to the seller, the buyer crier. The owner, who knows the stock best and
che knows that if the wore in fine condition they
mould the creditable feels that the would be creditable, feels that they are not beeing
appreciated at their real worth. The inteng purchaser, who does not know them, cannot mak due allowance for their lack of condition, and is apt to be suspicious that there is somet hing wrong hesitates to hid till they are knocked down at low price, and then feels uncertain whether he has not missed a bargain. The auctioneer is worrie not missed a bargain. The auctioneer is worried
because he fails to work up enthusiasm, knowing p ent thusiasm, knowing
that the prices obtained are unsatisfactory to
the owner, and he find the owner, and he find
it uphill work all
through the sale il through the sale. when trimming, brush ing and blanketing pay preceding the day of the sale, and the neces sary feeding may well
be commenced, in gradual way, a few
months before, for months before, for it is safer and better fo
all concerned that the stock be brought into good condition gradu to it by heavy feeding in a short time. The
classifcation and a rangement of the an mals in stallis or per
so as to give a first impression and ${ }^{\text {sin }}$ conver, if possible,
sense of unitormity size and type is no smal factor in iniving a favor able opinion the sto as a whole. In arrang
ing cattle in stalls le ing carger animals be placed fart thest from
the entrance, and if in the entrance, and if in
double stalls let them be as nearly matched in size and appearance as
possible all through the possible all through th
line, the smallest being nearest the door of en trance. Calves and
young stock in bo young stock in bo
stalls should be classil fied so as to be near o an age and size. All
should be well bedded all the passages wel swept, and every ani
mal should be halter
broken, trained to lead tractably and to sho
themselves to best advantage. A wild or untrained animal, breaking away from the herds man, causes confusion and loss of time, and breaks the steady run of business, which should
be maintained without distraction, and just here a mint to the crowd may not be out of place The man who attends a pubbic sale and partakes o
the hospitality of the owner should bear in mind the hospitality of the owner should bear in mind
that he is not expected to discuss politics while the sale is is progress; that if he is is not a bidder, the
least he can do consiten least he can do, consistently, is to keep quiet and
give the auctioneer a fair chance to do busi give the auctioneer a fair chance to do busi-
ness with those who mean business. The sales ness with those who mean business. The sales
man has a right to this privilege. and should
demand it wit demand it with formess, and insist and pon its
observance, if need be. A word to the man who observance, if need be. A word to the man who
attends the sales mainly for the purpose of talking
 for himself he the expense, of the man who has
advertised the sale. To such we would sav, don't advertised the sale. To such we would say, don't
do it, at least till after the sale is over, and if you cannot saas anything good for the stock, in the sale, be carefull to not say anything that will prejudice
be minds of intending buyer the minds of intending buyers. Think of the man
who has gone to the expense of getting up the sale Who has gone to the expense of getting up the sale.
Put yourself in his place and do as you would wish
to be done by to be done by. The animalls should be uumbered
in the order in which they are to be sold, the number being plainly printed one gimmed line or
strong paper, and pasted on the animal where it is sirong paper, and pasted on the animal where it is
not liale to be rubbed off. If a printed catalogue of the stock is prepared let it commence with the

| order of the eatalogue, unless there is some special | satisfactory to him, all the more so from his sense |
| :--- | :--- | and good reason for varying the order. As a rule ogue to place them in the order in which it is considered they will sill best. In other words, sell rrst those you think best individually, as some imes a fairly good animal of a certain family or train is likely to bring more money than a very ood one or a that there is apt to be some timiditi Ne are awart of the seller to putting up his best first, cearing it may be sacrificed before the spirit of the sale has been raiced but we are con offiet by offering first an animal that is very desirable, as enthusiasm is by this means likely to be raised at the outset, and a good price made at che start as; besides, if the best are withheld buyers will wait for them, and the sale will drag, whereas in et their first choice may be content to try for the next best in their estimation. We have noticed that the English breeders in their public saies ehey place a drawing card occasionally in the list. ay about every tenth number, so as to cause a therwise seem pricingeveritable down wrate might the osprit of the sale portance that suffiient help should be

in hand to get the animand out in reg-
niar succession, the
nit ular succession tege
lext in order being hext in order being heed ready to enter
the ring without delay
as soon as the one in as soon as the one one in in
the ring is sold. In hhe ring is sold. In
order to do this a sufficient supply of hal-
cers should be provided, and these can be nch rope by any handy man. The sale
ing should be convenient to the stable if suitable ground can
be found
It should e found. It should eo dry and comfortif not naturally so,
straw or saw it should be liberally
strewn around the strewn around the
ring, which should not
be too
tor be too large, as it is
sometimes difficult for the salesman to catch
the bids if his audience is too far away from him, It is right
 known blemish or
defect in any animal offered as son son as it
enters the ring. This enters the ring. This will in spire confl
dence, and may save dence, and may save
after trouble and unpleasantness, for
which there will be no excuse if arair under breeding list, giving date of service of each number and by what
sire, should be prepared before the sale and Society Shows, London, 1898 and 1887; also frst sire, should be prepared before the sale and
posted in some conspicuous place in the barns or stables so that visitors may mark their catalogues with these data before the sale commences,
which will save the trouble of asking and answer ${ }^{\text {ing }}$ In questions.
In regard to the selection of an auctionerr, we the crowd and buyers will be mainly made up o local men, it will be as well to employ your ioce auctioneer, as he knows the people at the sale has
stand his manner of selling ; but if the been widely advertised, and there is a probability that buyers will come from a distance, it may be better to employ an auctioneer having ar Provincia
reputation, who has had experience in managing large sales, who knows the leading stockmen on
the country, has a good idea of the value of highclass stock and of their breeding, and is himseli juage of such stock. confidence of the company, and if the stock is presented in good condition, and there are a reasonabie number prices as any man can under the circumstances. Assuming that he is man of good judgment, the saies of the auctioneer, as he will know, best when the bids are ex eer, as he will whowher there are buyers anough present to take the stock at living prices. II the the
bids offered in some cases are lower than the seller bids offered in some cases are lower than the selier
anticipates, and he is disposed to demur, let him possess his soul in patience, the next may bring
no case allow by-bidding from even a pecuuiary standpoint, as it not only detracts from the faith of
present buyers who discover it, but it also seriously present buyers who discover it, but it also seriously
mitigates agrinst the success of future auction miteringes
offit
Wit
With regard to advertising, we would say, if
the stock is good enough to justify bringing intending purchasers from a distance advertise liberally in the leading agricultural and stock papers having a wide circulation, making your
announcements well ahead of the sale, go that prospective buyers will have ample time to write or catalogues concerning the stock and make all aceessary arrangements. theamen who appreciate agricultural papers are the men who appreciale
oood stock, and will be prepared to invest liberall.
idjoing Advertise freely in your own and adjoining counties. There is inspiration in a werting to the
crowd, and it is well to have them, trusting aroctioneer to interest and entertain them in a business way.

Two Noted English Horses.
In this issue we portray two very different types of English horses-the Hackney and the Shire-
two celebrated stallions being chosen for the purpose, one being the three-yeariold Ropal Danegelt, the property or Sir Waiter Gilbey, Bart., first prize
and reserve champion at the Hackney Horse

Society Shows, London, 1896 and 1807 ; also first
and champion at the Ropal show at teicester in 1896. In striking contradistinction with him is
 son, Buscot Park, Faringdon, Berks.' winner of
Challenge Cup as best Society Show, London, 1897. The illustrations we ave reproduced from the fine summer supplement issued by the English Live Stock Journal.

Reversals of the Showring.
It appears that even in Great Britain, where, if anywhere, one would suppose competent judges of stock may be secured, frequent changes are mad ne same animals at different fairs, as indicated by the following editorial arte issue of the Mark Lane Expresss. Manchester the judges scarcely knew which to lace frist in the oldest bull class, Mr. Atkinson's Master Ailsbury or Mr. Handiey's Leonard. They
gave the palm to the former, but at the big Yorkgave the palme latter was not only preferred to the Royal victor, but Master Ailsbury could only get hird prize. In the clas8 for two-y ear-old sort.
horn bulls there was an equally keen contest bet ween Mr. Heaton's Mateq Recorder and Mr. P. L. Millis' Marengo. The judges gave preference to
the former, and likewise made him champion the former, and likewise made him champion
Shorthorn bull, but Marengo's
fortunes have Shorthorn bull, but Marengo's fortune e have
altered very considerably since. At the Lincoln than he expected, and the average may shire Show he was not in the same class as Master
Reocrier, but the two were drawn out against each
Oher other for the championship, and the palm wae
awarded to Marengo. He gained another first awarded to Marengo. He gaine another firs
prize at the Yorkgire Show at Harrogate, and
 These bulls it must be admitted, are both very
cood, as likewise is the older animal, Master good, as likewise is the older animal, Master
Ailsbury, which defeated Marengo at Peter
 for placing either frast if the three came before
them as competitors.
Weighing their various them as conpetitors.
claims in the bather an in inidious duty consequantly none of the above remarks must be
taken as censuring anything done at either show taken as censuring anything done at either show,
except the degradation of Master Ailsbury to third position at Harrogate.
"Mr. Brierley's three cows, Jewell 2nd, Rosedale Cowwip, and Quaeen of Hoarte, have, also been
variousily placed at the leading shows. We have just mentioned them in the order they were placod at the Royal, oniy Lord Polworth' Wave Mist came after the former two for third prize, Queen of Hearts having only harren honorg, and
coming fifth on the prize liet. Yet at the Offrd shire and Shropghire Shows she was placed first and preffrred to Rosedale Cowslip. In fact, at Shrewsbury, sll three being in competition, the
ruling was Queen of Hearts frot, Rosedale Cowsiip ruling was uueen of Heartr secerve. Ag Ain, at the Yorkshire Show the latter could only get reserve



 ing of tion Rogal wit



 Heith tineen of
 silip obould hate proft
 chatmentididiciono of tho





 more highly spppool Maeralid hateon bow
 Varied fortunes since
the summer of $1880^{2}$
when they ran such even coursee together,
At Lord Tr degr
Show la it November Show 1 a it Notember
they were both for the
frat time seriously degrade ie below the high
position they had
previously taken; but at the Royal Manchestor
Show the former could only get reberve while the
atter stood about teventh on the prize list for latter rto od about seventh on the prize list ior h. $c$.
Captain Du combe's Sea Gem, which usually came Chird to them in the yearlink conteste, had so much improved that she got into pride of place,
and has sustained her position tolerably
well and has sustained her pos. Morn 2nd won third prize at the Lincolnshire and econd at the Yorkshire. Mr. J. Thorley's beautiful heifer Rengdale
Bella nd can claim not to have been beaten any Belle 2nd can claim not to have been beaten any-
where this season, and to have gained the first where this season, and
prize wherever show. Among the ecurious inci-
dences of the eeason must be mentioned the fact of dences of the season must be mentioned the ract
her herd companion, the three- eear-old heifer her herd companion, the Contiee Show having
Jeannette, at the Royal been preferred to Mr. Brierley's Rosedilies' Bawston in the elder class for females. Mr. Win weli as at the Bath
Daisy was first at this show, as wis. Daisy Was frrat at this show, as wei
and West Southampton Exibibition.
 versals of showyard decisions, likewise. For in-
 awarded to sir G. M. Grant's very stylish bunl
Prine Ito which had been first in his class at the Prince Ito, which had been irst decision has since
Royal Manchester. Yet tis dind Royal Manchester. .
been reversed. In Devon breed Mr. Muck Mow's
Mer bull Whitstone Manga Charta held his own
broughout, and at the Royal was not only first in throughout, and at the Royal was not ond
his class, but had the champion position as best his class, but had the champion position as beet,
Deavon. Mr. E. Kidner's Harold
tht got nothing. although he was preferred to the firs at Southamp-
A. C, Skinner's Duke of Pound 27 ,

THE FARMER'S ADVOCATE
Septemiser 1, 1800
ton, and had been second to him at Minehead.
Several of the crack Herefords, such as Mr. Ark. wright's bulis Red won first prizes wherever they have appeared this season, and the same may be said of Mr. A. F.
Hughes' yearling, bull Lonsdale, which has been
sold at a sold at a high price for exportation. Two female
winners from Mr. Hughes' herd have also held
their own well - the heifers Buntiful and Winte their own well-the heifers Bountiful and Wintercott Plum. There was a reversal of Mr. Stephen Robinson's Soudan, the third yearling bull at the Royal being placed below the Earl of Coventry's
Grand Cross, which stood fifth in the Royal prize list. Again, in the class for heifers calved in 1895 Lord Coventry's Grace was preferred to Mr. Green's of decisions in regard to other breeds,
not permit present reference to them."

## Breeding and Management of Pigs.

The Canadian farmer will in the future, far more than in the past, find that the best markets open to him will demand that the articles he chief interest will be to reduce the cost of produc-
tion ; and, while granting that much advancement tion; and, while granting that much advancement
has in a few years been made, we have no hesitahas in a few years been made, we have no hesitahe produces is there more room for continued improvement than in the average of quality of hogs
placed upon the market. A considerable proplaced upon the market. A considerable pro-
portion of our farmers have paid attention to the trend of the markets and the discussions in the press with regard to the type of hog required by view to meeting these requirements, and with a good degree of success; but there is still a large proportion of farners who evidently have not read gone on in the old lines, producing what is not wanted and what
must be sold at second or third
class prices, thus losing money and class prices, thus losing money and reputation of our products, which but for their carelessness might quality and bring more uniformly good prices. The pig now required feeder, and consumer is one that
will convert food into the best carcass of pork within the shortest experimente, both by private in dividuals and at the public experimental stations, that pork made
with young pigs is far more cheaply made, that it brings the highest price in the market, and that it willing to pay a good price for whiling to paits their taste.
The type of pig required to meet the present-day demand is a grow rapidly while young and will
attain a weight of from 150 to 175 attain a weight of from 150 to 175
pounds at six to eight months old. pounds at six to eight months old sirable quality he must be fed a variety of food of flesh-forming properties, such as milk, whey, etc., with a run on clover in sum
mer and roots supplied in winter, together with free access to such condiments as a medium sized, compact boar, heavy in the hind ful of earth from the root cellar occasionally. As to the best means to adopt to bring one's pigs to the of opinion, as most men have their own ideas of the merits of different breeds; but it is safe to say that no one breed has a monopoly of all the good
qualities which go to make the ideal bacon hog. If qualis purposed to breed and keep pure-bred hogs the first essential is to secure a sow of the desired type, with good length and depth of bodv, strong, flat
bone, standing straight on her toes, having a quiet bone, standing straight on her toes, disposition, and at least twelve teats, even in size, placed equidistant apart and commencing as near the fore legs as possible. The fact that the produce of pigs in the course of a few months makes it essential that care should be taken in his selection and in the study of the charácter of his forebears.
To this end it is preferable as a rule to look for him in the herd of a breeder of long-standing and good repute, and if you are not a judge explain your wants fully and trust him to supply what you herd," applies with even greater force in the case of a boar in a herd of swine, and it is essential that as many good points as possible should be combined should be pure bred, and in order to this he should be registered, and if descended from an old estabbe registered, and better, for the reason that in a newly established herd, even though the owner a great variety of type is likely to be found, and more frequently than not the prize aninuals may not
have been bred by the owner, but bought from
medium sized, compact boar, heavy in the hind ly prove fruitful for a much longer time than a heavy - shouldered, coarse - boned hog, and his
produce will have stronger constitutions and prove produce will have str
more kindly feeders.
As to the age at which pigs should be mated for
breeding there may be room for difference breeding there may be room for difference o
opinion; but, as a rule, where they have been liber ally fed and well developed for their age they be safely put to breeding at eight to nine months old, so that the sow may produce her first litter at about
a year old. Presuming that she was born in March a year old. Presuming that she was born in March
or April, she may be bred in December or January for her first litter, and should not be required to raise more than one litter the first year, but al-
lowed to rest and grow during the summer. After this, if desired, she mav raise two litters a year, which should come in March or April and in Sep-
tember or October for best results an tember or October for best results, as late fall pigs
are liable to get stunted and do not generall on to make rapid growth or give a good return for the food they consume, since they cannot in winter get sufficient exercise to strengthen their bone and
give the vigor of constitution necessary to give the vigor of constitution necessary to stand
heavy feeding. The brood sow should have the run of the barnyard in winter while in farrow, so as to get sufficient exercise, to which she should
be induced, if need be, by feeding her at be induced, if need be, by feeding her at some
distance from her pen, or by scattering part of her distance from her pen, or by scattering part of her
feed, such as peas or corn, so that the will have
to work for it. The young pigs from the time they are a week or two old should be allowed to rum
out in the sunshine on fine davs

their getting too fat, which is liable to bring on
"thumps" or congestion. Those intended for
breeding purposes should be allowed freedom for breeding purposes should be allowed freedom for
exercise all the days of their lives, and should bo fed moderately, while those intended for the butcher at an early age may be pushed on from
their birth, always remembering that they too in the first weeks of their lives need exercise for the development of bone and muscle in order to stand the pressure
for market.
To the average farmer who does not aspire to be a breeder of pure-bred pigs, but merely to raise stock for feeding for the market, we would say
improve the stock you now have by the use of mprove the stock you now have by the use of
pure - bred boar as near the type demanded by phe market as you can get, and continue to use y boar of pigs for breeders. Do not be deluded your sow pigs for breeders. Do not be deluden
into the idea that by using a boar of first one breed, then one of another breed, you can cone
bine the good qualities of all and produce a mode bine the good qualities of all and produce a model hog. Such a course wing and nondescript stock, lack producing a mongre and inde and appearance, and in every way unsatisfactory.
Good results are frequently met by crossing two
breeds for the production of feeders, the first breeds for the production of feeders, the first crose
of the Berkshire with Tamworth or large Yorkshire for instance, and this we would not by any mean discourage where the whole of the produce is dis-
posed of to the butcher, but let no one imagine that pesean breed these cross-bred pigs together with any degree of certainty that a uniform type of offspring
will result. It is only by long years of patient ex will result. It is only by long years of patient ex
perimenting and close selection and culling, and perimenting and close selection and culling, and
that by men of genius, that breeds are established
One in a million-once in a generation- may One in a million-once in a generation-may succeed One in a milmon, once in a generation-may succeed
in the attempt, but the average mortal had better
conclude that life is too short for such a work.

Experience in Feeding Working Horses.
To the Editor Farmer's
SIR,-In your issue of 1 lith Augus
I was interested in an address by Prof. I. P. Roberts to agricultura students of Cornell University on Care of the Horse. The lecturer must have surely stretched a point in that part
of his discourse where he maintain ' a horse should be feed four time daily, and half the feed should come From a practical
would be a mistake. Horses in work would
(I take for mistate. Horses in work speaking of such) should not receive ightest. The reason being, the hors is necessarily tired with the day's labor, his digestive organs are affected, feed at night either does him little rood or serious injury; colic, congested lungs, bowel complaint will arise from it. Our lorry and van horses are fed
their heaviest feed (whole oats) in th morning, medium feed at noon and and a case of colic is of rare occur ence since this system has been in Wm. Hendrie, JR
Manager for
Hendrie \& Co., Limited Cartage Agents for G. T. Ry. Sys Hamilton, Ont., Aug. 21st, '97.
several herds of greatly varying type, and thei
produce when bred together will often be unlik produce when bred together wir orten bemes u a point of importance to the beginner who hopes $t$ found a herd good enough to take a high position it is to select the boar from the same herd for type. Young breeders are apt to get the idea tha y selecting a boar from each of a number of lead points of all, but in actual practice this will in most cases end in partial failure : the stock bred will lack veloped while strong failings will be equally noticeable.
The esse boar are a compact frame, as long and deep as possible consistent with strength, a wide chest an
good heart girth, but fine and smooth in shoulders good heart girth, but fine and smooth, deep flanks, straigg loin, hams, wide and deep, twist full and
well fleshed down, legs strong, straight and wel placed, bone fine and of good texture, neck muscu and eeves, sexual organs well developed, hai
straight, fine and silky, skin free from wrinkle straight, fine, and silky, skin free from wrinkle
and smooth and elastic to the touch, and his tempe and smooth and elastic to the touch, and his temper
should be good, for a vicious boar is an intolerabl nuisance and a constant source of danger, and liable to transmit this meanness to his produce which are apt to prove restless, unsettied, and slow strong point unless it is combined with compact ness and fineness and strength of bone and fee
A very large boar is liable to suffer from weakne A very large boar is liable to suffer from wequentl weak in his joints, and these failings are hered tary. Weakness of fetlocks and roundness bone, qualities which are specially to be avoided i
a sire, are frequently combined with great size.

jersey cow, opale, the property of dr. herbert watney,
Breeds and Management." by Vinton \& Co., L.ondon. Eugland.]

Crossing Buffalo with Domestic Cattle. In Hoard's Dairymen an account is given of the xperiments conducted by Mr. Charles Goodnight Clarendon, Texas, during the past 17 years in
crossing the buffalo with domestic cattle. In 1879 he secured four buffalo calves and now has 36 head of pure-bred buffaloes.
Among the somewhat curious results he has He has never succeeded in getting the buffalo Texas cow the Galloway of cattle save the native Texas cow, the Galloway, and the Polled Angus. thus showing the strong prepotent power of the Galloway blood. This cross, however, proves very
Wicertain. With the Polled Angus the cross is uncertain. With the Polled Angus the cross is far that with this breed all of the calves of the first ucceeded in getting a bull calf from the first cross The half-bred Polled Angus heifers breed every second wereas the buffalo cow breeds only every When the half-breed cows are mated with a pure-blood buffalo bull male calves are often the
result, but every three-quarters male thus ob tained has proved baren (sterile), though the hree-quarters heifers breed readily. It is evident ver be obtained any more than between the ass
nd the horse

Good Time for Agents.
The fall fair season is a most favorable time to
Hew subscribers to the'FARMER's ADVo-

Sea Gem, Champion Shorthorn at the Royal of 1897.
The Shorthorn heifer, Sea Gem, calved in 1595, py Liberator, out of Sea Pearl, by Commander, most successful animal in the Shorthorn section at the last English Royal Show. She had much style
and sweetness of character, with substance and wealth of flesh. She was bred and owned by Capt. W. H. O. Duncombe, Waresley Park, Sandy. Our angraving

The Montreal Exhibition.
The early date fixed for the Montreal Exposition, to rain on the morning and at int harvals during Wednesday,
one of the days on which the best crowds ard expected, had a rather depressing effect on the attendance, to put it mildly. Indeed, there was really no crowd, and the gate receipts
innast have been very slim. This is to be regretted, for the must have been very slim. This is to be regretted, for the
officers of the show had worked hard and made every effort in their power to make the show a success. The live stock features of the exhibition were by no means disappointing,
most of the classes being fairly well filled, while the classes most of the classes being fairly wel
for dairy cattle were strong, that
being especially heavy. Visitors to this exhibition in former
years as well as this are agreed that at no similar event at any place on the continent can such an aggregation of high
class Ayrshires be seen as at the Montreal Exposition. Mr F. Ays A. Lovelock, of Lynchburg, Va., judged this class as
F. well as the Holsteins, and evidently made careful and critica examinations of the animals in competition, and while failing, as all judges do, ts please every body, he made, especial
ly in the female sections, fairly good work, while in the bulls he probably made some rulings
criticism, to say the least, and which some acknowledged judges could not
endorse and would not subscribe to. endorse and would not subscribe to.
The rule adopted here, for the first
time to our knowledge at the larger time to our knowledge at the larger
shows, of showing for the herd prizes, before the competition in the prizes before the competition in the
sections by ages instead of after,
may be an improvement, though of may be an improvement, though of
this we have doubts, where the judge this we have doubts, where the judge
knows his business. The advocates of this new departure claim that in the usual way the herd prize
is awarded en the basis of the priz, is awarded on the basis of the priz,
tickets a man can show at the close
of the class competitions rather than of the class competitions rather than
on the individual excellence of the animals, some of which may not
have been bronght into competition in the class examinations.
In this case eight herds, each
composed of one ball and four fecomposed of one bolt and four fe-
males, faced the judge at the outmales, faced the judge at the out-
set, a formidable phalanx of forty animals, every one of which must
be critically examined individually be critically examined individually
by the judge before he could give by the judge before he conld give
a decision. stances it is no wonder that exhibitors and attendants, as well as on-
lookers, experienced a somewhat tired feeling before the examination closed, and the latter a feeling of
disappointment when the results were not proclaimed in the usual lookers, experienced a somewhat
tired feeling before the examination
closed, and the latter a feeling of
disappointment when the results
were not proclaimed in the usual
way by the immediate presentation of prize tiekets, but
withheld till the tollowing day. The interest in this con-
the test was heightened by the fact that the first prize was a
substantial one of $\$ 100$ cash, presented by W. W. Substantial one ootraal, for the best Ayrshire bull and four
Ogilvi, Esq., Montres.
females. The competitors for the herd prizes were R. G. Steacy, Lyn, Ont; ; D. Drummond, Petite Cote, P. P.
W. Wylie, Howick; R. Robertson, Compton ; R. W. Wylie, Howick; R. Robertson, Compton; R. R.
Ness, Howick; J. N. Greenshields, Danville; Dawes
Co., Lachine; and Jas. Johnston, Como. The rating
of the judge placed them in the following order : 1, of the judge placed them in the following order: 1,
Steacc; ; Wylie; , , Drummond. It is safe to say there
was not a third-class herd in the lot, and it must have was not a third-class herd in the lot, and it must have
puzzled the judge to make his selections from such uniform collections. The call for aged bulls brought out seven con-
testants, viz,: Drummond's three-year-old Glencairn of testants, viz: Drummonds thrie-year-ol a
Maple Grove, imp. in dam by Mr Steacy a son of Irene ;
Drummond's four-year-old Kelso Boy, of his own breeding, Drummond's four-year-old Kelso Boy, of his own breeding,
a son of Silver King and Maggie Mitchell, Steacy's imp. a son of Silver King and Maggie Mitchell ; Steacy's imp.
Carlyle of Lessnessock, hero of many a well-fought field ;
Wylie's three-year-old Lord Sterling; Greenshield's treeWylie's three-year-old Lord Sterling; Greenshield's three-
year-old Prince Charlie, and Derby ; Johnston's three-
year-old Prince Henry of Barcheskie. 'The five prizes were year-old Prince Henry of Barcheskie. The five prizes were
awarded in the order in which we have named them, a decision which did not meet with unanimotis approval.
Many good judges would have reversed the order of the first and the first be third, which in our opinion would have been right; but when doctors disagree who shall yecide. This much is certain, they are all A 1 . In two-
yearold bulls there were six competing, including Mr. R.,
Robertson's Matchless, by Glencairn and ont of the World's Fair winner, Nellie Osborne ; Steacy's Sensation, imported
in dam ; Greenshields' Isaleigh Cbar ie; Mrs. Placks Beauty Style of Burnside; and Howden's Silver Prince,
a grandson of Silver King. The contest for first place a grandson of Silver King. The contest for first place
was evidently betwen the two first named and many would bave placed them in that orler, bit both are
of a high order of merit, having fine dairy pinints and much quality. Sensation was finally given first honors,
and Mathless second, the third place being given to Mrs.
Black's entry. There were seven yearling Bulls in the
competition, a uniformly gooll lot. Frst prize went

Tawes. \& Co. for Jerry of Lachine, second to the Charle
magne Lumber Co. for Royal Star, and third to Steacy for
Riscom. Bull calves over six and under twelve month Riscom. Bull calves over six and under twelve month made a good ring of seven entries, and the first prize went
to Steacy's Son of Carlyle, second to Reid \& Co., Ottawa to Steacy s Son of Caryly e, second to Reid \& Colventawa
third to Wylie, fourth to Dawes \& Co. Bull calves under s. x months numbered ten, and Mr. Wylie got first place for
a very good one, followed by Mr. Drummond for second,
is Benning third, and Wylie fourth. The sweepstakes for best
bull any age went to Mr. Drummond for the first prize aged bull, Glencairn of Maple Lodge. The Ayrshire cows are
always the great feature of the Montreal show, and this always the great feature of the Montreal show, and this
time a string of over thirty stood in line, every one of which time a string of over thirty stoosd in line, every one of which delight the eyes of a lover of dairy cows. An enthusiast
remarked that it reminde I him of the "milky way." Many remarked that it reminde 1 him of the " milky way," Many
of the e would have been more interes': ing if they had been
fres in of the e would have been more interes.ing if hey hareat ber
fresh in milk, for a dry cow, no matter how grea
capacity as a milker may be, has little chance in the competition with ons fresh and full of milk. Among those
which were likely to be in the prize list was, of course, the ten-year-old matron, Nellie Osborne, and Mr. Steacy s May Queen. The former, being dry or nearly so, did not show to
advantage, but her great depth of body and consequent advantage, but her great depth of body and consequent
capaci'y for work, her prominent milk veins and wel! formed udder, vould not be passed by; while May Queen, being comparatively fresh and fu 1 of milk and not fleshy, but in
ideal working order, with her shapely and well-proportioned ideal working order, with her shapely and well-proportioned
ndder and fine dairy conformation, making her very attractive; she fell into first place withont a struggle, fol'owed by Nellie Osborne, Stacey's beautiful and shape y Wy ie
2nd taking third place, and a rich and rare good cow shown 2nd taking third place, and a rich and rare good cow shown
by Dawes \& Co. being rated fourth. She must have been hard to pass by, but among so many good ones it is hard to choose. Three-year-old cows made a very strong class and
must have been difficult to place, there being so many good must have been difficult to place, there being so many good
ones, but Steacy again got to the fore with Beauty of ones, but Steacy again got to the fore with Beauty of
Tana, and had also second p'ace with Clementine; Mr.
Drummond coming in a close third with Baby Ruth, and

Whi'e his fine dairy conformation is almost byond criticism.
Mr. Ferland's entry, an excellent animal and a good specimen of the breed, was paced second. In the ring, for two
eear-o d bulls a worthy winner was found in Rice's entry year-o d bulls a worthy winner was found in Rice's entry,
McGerrigle Bros. furnishing a good second, and Doig a creditabe third. In yearings, (iilroy's well-developed and typical bull captured the first prize, and Rice's entiy made
an excel ent second. In a good ring of bull calves Gilroy won first, Rice second, and Sangster third. The compeWon irst, Rice second, and four years and upwards was very
tition in the ring for cows
interesting, since it inc uded such notoble numbers as interesting, since it inc uded such notoble nimbers as
Gi'roy's Carmen Slyvia, sweepstakes winner of last year, froy's Carmen Sresenting a wealth of udder deve'opment se'dom excelled ; Rich's old-time champion, Eunice Clay,
sict dry, but rich in the indications of capacity fur work,
which she has demonstrated in the past by a record of 84 pounds; Calamity Jane, of the same herd, with a record of 70 pounds a day, herivine of the crucial test and champion winner at the Dominion Dairy Show for two years past,
and Daisy Jewel 2nd, another of the Rice herd, fresh and full of milk, with a shapely and well-proportioned uader and fine dairy formation ; and Gilroy's milky Erie Belle, carrying a model vessel. Carmen Sylvia by consent took
first pase, followed by Erie Bello for second and Daisy first p ace, followed
Jewel for third. Calamity Jane had been milking elevin months and could not show her udder to advantage or she
wou'd no doubt have ranked higher in the rating, but he wou'd no doubt have ranked higher in the rating, but he
reputation is too well established to suffer by a temporary reputation is In a good ring of three-y ear-old cows Gi roy's Sady's' Teake's Tyrannia Queen was crowned the winner
and Rice's Daisy Jewel's Olive second, Gilroy's Iona takin and Rice's Daisy Jewel's Olive second, Gilroy's Lona taking
third place. The first prize two-yeat-old heiter was a milky thard place. The first prize two-year-old heiter was a miky
daughter of Carmen Sylvia from the Glen Buell herd. The Rice heifer, Tirania Bell, was given second place, and
Gilroy's Flamboro Castine Queen, third prize. In a fine Gilroy's Flamboro Castine Queen, third prize. In a fin
class, of yearling heifers a creditable first was fonnd in Rice's Daisy Texal 2nd, but her stable companion, Lucky Rice's Daisy Texal 2nd,
Jane, daughter of Calamity Jane, might well have been
given the place her name would seem to colim as an ofstet to that of her misnamed mother
The family fame was, however The family fame was, however,
redeemed in the ruling in the cow
calf class, by which Pauline Jane calf class, by which daugh of Calamity
another daughter or one front on her
Jane, came to the front merits, as indicated by remarka
ble udder development and rich ness of secretions, which point to a promising future. The sweepby Carmen Sylvia, the first prize
ow. And the championship for bulls went to the same herd for The exhibitors herd prizes were First, Gilroy \& Son; second, Rice ;
third, Ferland. Breeders, third, Ferland. Breeders' young
herd: First, Rice ; second, Gilroy. This clases, which was judged
by Mr. Peer, Mt. Morris, N. Y., by Mr. Peer, Mt. Morris, N. Fo,
was well filled by selections from
the four well-known herds of B . H. Bull \& Son, Brampton, Ont.;
R. H. Pope, M. P., Cookshire ; R. H. Pope, M. P., Cookshire ;
Dawes \& Co, Lachine, and F. S.
Wat Wetherall, Cookskire. The latter
exhibitor showed nine head, and won premier place in the class for
aged bulls with Hobart of $S$. Lambert, a richly bred and finelycharacter


 portion of them high uphter of Silver King and Burnside Lass; second to Wylie, third to Steacy, fourth to Green-
shields. Heifer ca ves over six and under twelve months made a sp'endid showing and were well topped by Drum-
mond's mond's on'y danghter of the famous Nellie Osborne by
G encairn, a second edition of her dam and one which we predict will take her place in the cow ciass some day if the
indications are realized. The same exhibitor had the second ndications are realized. The same exhibitor had the second
prize calf, and Mr. Wy:ie came in for third, followed by
Mr. Greenshields for fourth and fifth. Heifer calves under six months were an interesting ring of seven, in which Mr
In Johnston came in for first prize, followed by Robertson,
Drummond Drummond, and Ness, in the order named. The sweepstakes
for best femals in the class went to Steacy's May Queen, and the prizes for young herd, bred by exhibitor, were given
in the following order : 1, Drummond ; 2, Ness; 3, Charlemagne Lumber Co .
The sweepstakes for best female any age was won by
Steacy's first trize cow May (uueen. The gold medal pre Steacy's first prize cow May Queen. The gold medal pre-
sented by the Ayrshire Importers' and Breeders' Association sented by the Ayrshire Importers as, the progeny of one sire,
of Canada for the best four animals
was won by Mr. D. Drummond for the get of Silver King.

The Holstein class was we 1 filled, with representatives
from the herds of C. J. Gilroy \& Son, Glen Buell, Ont from the herds of C. J. Gilroy \& Son, Glen Buell, Ont.; A. town, P. Q.; John Doig, Lachute : Neil Sangster, Ormstown ; and Jas. B. Ferland, Three Rivers. The quality of
the anima's exhibited was generally good, while a large proportion were of a high order of merit, and nearly all were
brought out in fine condition. Mr. Lovelock made the awards. In aged bul's, fii roy's well-known and everpopular five year-old Inka Kathleen's son was by common
consent allotted premier honors, and also won the sweepconsent allotted premier honors, and also won the sweep-
stakes medal for best bull any age. He comea out this year
in splendid bloom, and carries his great weight easily,

为 many good judges thought Bull's Kaiser Fritz, having all
these qualities, plus a tronger constitution and greater subthese qualities, plus a stronger constitution and greater sub-
stance, should have topped the class instead of being turned
down to second place. In two- year-old bulls Mr. Pope's own to second place. In two-year-old bulls Mr. Pope's
ntry had pride of place, and Dawes \& Co. a good entry had pride of place, and Dawes \& Co. a good
second. Mr. Pope had also the first rize yearling bull, second. Wr. Wetherall a very good second in Pride of Cook-
and Mre. The same exhibitor had the first prize heifor
shire shire. The same exhibitor had the first prize heifer
calf, a hands?me silver gray of pleasing promise. The
 and champion of his class in Sir Brier of Bramp
ton, a handsomely-formed and rich-colored son of Sunon, a handsomely-formed and rich-colored son of Sun
beam of Brampton, the first prize three-year-old cow and sweepstakes female of the class, a typical dairy
cow, rich in her secretions and carrying an ideal milk cow, rich in her secretions and carrying an ideal milk vessel, and an unbroken record as a premier prize winner
in many contests. In the cow class, Rhoda of Brampton, in many contests. In the cow clasa, hhoda of Brampton, udder and well-placed teats, won first honors. Two-year-old
heifers were strong class, and the Brampton contingent conheifers were a strong class, and the Brampton contingent con-
tributed the first and second prize winners in Lisgar of tributed the first and second prize winners in Lisgar of
Brampton and Jetsam's Molina, the latter the first prize
vearling at Torth last year and a daughter of imported yearling at Toronto last year and a daughter of imported
Jetsam from the Island. The same exhibitors won in the year'ing heifer class with Trilby and Laurel of Brampton, yearing heifer class with Triby and Laurel of Brampton,
first and third respectively, Mr. Pope intervening with a
worthy second. In an exceptionally good ring of heif worthy second. In an exceptionally good ring of heifer
alves the prize list was perplexing to spectators, but the calves the prize list was perplexing to spectators, but the
judge doubtless had his reasons with him when he ranked judge doubtless had his reasons with, hul when he rankird,
them as: First, Wetherall; second, Bull \& Sons; third,
Dawes \& Co. The Brampton firm won both the exhibitors herd prize and the breeders' herd prize.
urbnsey
were out in greater force and in a higher order of merit than
hey have been in Canada up to date, every section in the they have been in Canada up to date, every section in the
class being well fil'ed with selctions from the herds of Hon. Sydney Fisher. Knowlton; W. II \& C. H. MNNish,
Lyn ; R. H. Pope (M. P.), Conshire ; Wm. Butler \& Sons Dereham Centre, and I.' N. Greenshields, Danville, P. Q. Dereham Centre, and N. .ireenshiels, Bands Mr. Greenshields won first
In the class for aged bull
honors with a bull of fine dairy qualities, rich color and
strong constitution. Thr sam animal was later awarded

THE FARMER'S ADVOCATE
September 1, 180
the championship in bulls of his class. Butler \& Sons had
a good second in the section for aged bulls, and Mr. Fisher a creditable third. In the section for two-year-old bulls McNish scored first with a bull of much merit, and Mr. premier place with a capital young bull, Mr. Fisher bot second. In bull oalves Mr. Greenshields again came to the class of cows MoNish won with a handsome and useful looking cow, having a model shaped udder and well-placed
teats. Greenshields had a worthy second, and Mr. Fisher's entry, a cow of fine type, was placed third. In two-year-
old and also in yearling heifers Butler $\&$ Sons' scored first followed by Mr. Fisher in the former class, and by himself classes were judged and were placed as follows: Butler \& Sons first, Greenshields second, Fisher third. In the competition for breeders young herd the order was made MoNish's first prize cow was given the sweepstakes as best female in the class.
shorthorns
The beef classes were not well filled as to number of ontries, though some of the breeds were well represented by selections from one or more high-standara herds. They were judged by Mr. R. Gibson, Shorthorns were shown by hoice youngotere a pear old and and $J$ \& $P$. choice youngsters a year old and under ; J. \& P. Crerar,
Shakespoare, Ont.; Wm. Oliver, Avon Bank, Ont. ; W. P. MoClary, Compton, and Chas. Robinson, Odelltown, Que. The last-named exhibitor was awarded first prize for three-
year-old bull, and Mr. McClary second for two-yen year-old bull, and Mr. McClary second for two-year-
old bull. Oliver got first place in the two-year-old ring with his imported white Duthie-bred bull, fiom the the
herd of Mr. Dustin, Summer Hill, Illinois was under the age for the class and showed against much older bulls. He is a bull of good form and quality and it company. Crerar condition would be hard to beat in any man 2nd, a good, thick, blocky frize yearring bull in ScotsRockland herd captured all the prizes for bull colves, The the first prize calf was considered good enough to be ranke fleshed youngster, brought out in fine condition, as thick the oxhibit from this herd. The second prize calf, a roan son of Bessie of Rockland, sweepstakes cow at Toronto last yeaw, and own brother to tose is a vecond, being very smooth and evenly fleshed. Mr. McClary won third prize for yearling
bull and third for aged cow; Messrs. Crerar winning first in the cow class with Indian P Princess, a a granddaughter of second for two-year-old heifer and for yearling heifers, and second for heifer calf; Mr. Ed wards taking first place. Messrs. Crerar also won the three herd prizes onered, namely prize by the Dominion Shorthorn Association, Messrs. Edwards \& Co. taking second in the two latter. Mr. Crera hereronds

The Province of Quebec now takes the lead in this bree of cattle. Three herds, those of Messrs. H. D. Smith an Guy Carr (Compton) Mr Smith's herd was as an brought out in blooming condition, and reflect great credit on his capable herdsman, as they are not only in first-class show condition, but have not been overdone, being strong as well as being regular breeders, as attested by their pro duce, living and thriving as they are. Mr. Smith has ducers by investing largely in the importation of fresh quarantine at Quebec. At the head of his herd stand two bulls of extraordinary merit-Amos and Sir Horace, the former winner of first prize and sweepstakes here, carrying a
weight of 2,200 pounds in his four-year-old form emarkably smooth and level bull, well filled in all good points, with extra long, level quarters, long thighs, and straight, strong limbs. His first prize two. year-old bull
Sir Horace, bred by Mr. Sotham, Chilicothe, Mo., weighing 1,500 pounds, is a model in form, and shows every
indication of a strong constitution and masculin chaacter. He is remarkably full in his crops and fore lanks, and has a strong, muscular neck, with hand
some crest, and is proving an impressive sire, his first prize cow old, has held her place as a first prize winner for severa years and has been a regular breeder, having produced a
calf in April last and being well on in calf again. She is a grand rep esentative of the breed, carrying a wealth o
natural flesh, smoothly laid on and evenly distributed, and natural flesh, smoothly laid on and evenly distributed, and
moving freely with her weight of 1,900 lbs. Her stable companion, Spot 3rd, and her three-year-old daughter were awarded the second and third prizes respectively, and are
well up to the standard of A1 in every respect. The firs prize two-year-old heifer, Jessie, from the same herd, ance of a mature cow and being full in all desirable qualiies. The first prize yearling heifer was also found in this Tushingham. Mr. Smith won the first and second prizes in the herd competition. Mr. D. M. Wilson showed a useful
herd in work-a day condition, headed by the excellent four-year-old bull Earl Douglas, winner of second prize in his
class. Mr. Wilson also won first prize for yearing bull with Mount Royal (born on the show grounds here last year), first
for bull calf, second for yearling heifer, first for heifer or bull calf, second for yearling heifer, first for heife
calf, and third for herd. Mr. Carr won third prizes on three
tear-old bull, bull calf, yearling heifer, and heifer calf.
polled angus. There was keen competition in this class, three excellen Washington; Ont.; R. H. Pope, M. P., Cookshire, and D Washington, Ont.; R. H. Pope, M. P., Cookshire, a
M. Wilson, Moo's River. Mr. Hall won frst prize and sweepstakes with his grand odd bull, Lucretius, a magni-
ficent specimen of the breed, carrying great thickness of
flesh, smoothly distributed, The same exhibitor had the first prize yearling bull, bull calf, three-year-old cow, two year-old heifer, and the sweepstakes bull, Lucretius, an year-old cow, a very smooth and symmetrical animal. Mr. year-old cow, a
Pope tha the first prize two-year-old bull, first prize cow, a
extren extraordinary good one, and a strong competitor for the weepstakes. y ersirst prize heifer calf and second prize won second prize for aged bull, third for yearling bull, thir for three-year-old cow, second for two year-old heifer and first for yearling heifer. The exhibitors' herd prizes stood
First, Hall ; second, Pope; third, Wilson. The breeders young herd prize was won by Mr. Pope.
alloways
were represented by the well-known and always strong her he entered for, and who would at any time prefer to meet the be:t qualities of the breed, showing evidence of a robust ness of constitution on which one can readily believe tha
tuberculin would fail to "fizz," and on the administering of tuberculin would fail to "fizz," and on the a
which we judge he might safely experiment.
Mammoth Oxen.-An interesting feature of the fair wa anair of mammoth Holstein-Friesian oxen, shown unde purchased by. J. D. Avery, Buckland, Mass. They wer of 85 poust, the dam of one being imported with a milk recor the other, except that it is claimed he is purely bred. They stand 17 hands high, girth 10 feet, are 15 feet left inche they weighed $7,300 \mathrm{lbs}$. and stand exceptionally well on their feet. Mr. Avery says when at home they are regularl
worked on the farm, and have a record for draft of haul worked on the farm, and have a record for draf o
ing 11,061 lbs. dead weight on a dray, which is claimed t
be the record for draft of this nature. ecord for draft of this nature.

The exhibit of eheep in most of the classes was very good
Someo the classes were not well reprosented, while in others some or the
competition
long wools.
Ont.; Chas. Robinson. Odelltown Oue. Del phis Turenne. St Paull' Hermite; Clovis Ouimet, St. Fis de Salles ; and Arsen
Denis St. Norbert. Mr. Wateon makes his bow to the publi Cor the frst time with a high-class exhibit of Cotswolds which

 winning all the 1 st prizes in the seotions in which they wer
ontered, as wall athe opentoall fook prizes and four 2 nd
orize,

 hig oone lower lines in the prize list where they came in com
tate the elt.
petition.
 fook, a very good. reoord. Mr. Tarenne got 3rd prize for
fwo-year-old ram, and 3rd for jearling ewes, and Mr. Denit
fra for two-year.old ewes and for pen of Province-bred sheep.
were shown by John Kelly, and W. A. Rennie, Shakespeare,
Ont.; David Baxier, North Georgetown; P. Patenande, St
Remi

 nony good pair oleeress of her make-up, being wonderfull
develin the oompleenes.
devel in all points of excellence, and showing fin quality, as well as great size and per fect symmetry. The 18,
and 2 ond open fock prize were awarded to Rennipe, and the
Province-bred flock prize to Baxter, who also won lit on two
 yearling owes, and 2nd for Province-bred pon. Turenne pot
3rd prize or aged ram, 2nd for two-jear-old ewes, and 3rd for
Province-bred pen.

- LINCOLNS
were shown by Wm. Oliver. A Avonbank, Ont., and Clovis
Ouimet St. Fis de Salles. Mr. Oliver's sheep, were a strong ot, weil brought out, and won althe rrsp prizes he compete
for. Mr. Ouimet's were in everyay condition, but thowing
 SHROPSHIRES
In this class the exhibitors were Robert Miller. Brougham,
Ont.; Alv. Chartier
Ormstown. Mr. Militer Pablithermite; and Robert Roy Ormstown. Mr. Millers exhibit was entirely made up of re
cently imported animals selected by himself from leading
focks in Britain Brait and including a number of the prize-win
 hat giso in thisimportation the 2nd prize yearing ram art he
habropshire and West Middlesex Show this year, the only
 the Royal this year, two of the 1 st prize pen of owe lambs at
he same how, and four of the 18t prize pen at the hropshire
Show. Theee make up a very strone string to enter on the

 wen.

were exhibited only by E. OXFORDS who was awarded 1st
wwe, list for ewe lamb.
C. Brosseat

 prize for aged ram,
and flock Guy Ca
and fowe lambe,
arall winning 2nd.

IERinos.

Mr. J. A. MoGillivray, Q.C., Ux bridge, Ont., was the only whibito of this breed. He showed an exceptionally good lot
well the to the standard and in good condition, and oaptured
all the prizes in sight practionily orderd the whol bine fare. He is a modest man is John $A$
he oan get when he goes to a fair.

There were only five entrie in this class. Clovis Ouimet
won for twoshear wether and awe. I. . Shaw took 2nd for

 PIGS.
The swine department was fairly well filled. Some of the
dasee
represented. Mr. Lovelock joded jed them. berkshires












 Gingras, 2tw prizes, including 2nd for for fow fond prizees of her
produec; and Mr. Trudel won 2nd prize for sow under eix
ponths.

 .
were out in goodly numbers, and some very large and good
one were ghown by Heotre \& 8 Son, Crampon, Ont. Jas.
Donaldson, Ormstown; and Chas. George, Avon, Ont. Mr. Donaldson won tht for boar under six months, and strd for sow
inder six mont fo Messra George winning the balance of he prizes, including the herd prizes.
made a good showing, there being a fairly well-filled ollass
and the young thingy particularly good. The exhibitors wer
W. M. \& J. C. Smith, Fairfeld Piains. Ont. J. H . Taylor
 prize yearling boar. J. H. TTylor seared IBt and and prize for
boars under six months, ro for to-ear-old boar and two

CHESTER WHITRS.

There was an excellent display in this olass, including
Tany animals of high-class merit. They were show by Wm Butler \& Son, Dereham Centre, Ont.; H. George 2 Sons, Cramp
lon, Ont., and E. C. Brosseau, Brosseau Station, Que. LAREL YORKSHIRES, VICTORIAS, AND OTHER LARGE BRKALS
Constituted an omnibus class, or a sort of free-for-all, not other
wise provided






FARM.
Protection from Lightning, and Homemade To the Editor Farmer's Advocate
To tir, - I must say I think you are doing a good work in bringing this matter so prominently before the farming community. If, as you request, I would feel honored and glad to do so. It seems, however, rather presumptuous to interfere in a discussion When true that I have given the subject some consideration and became so impressed with the utility and at the same time cheapness of such a rod that some 20 years ago I had rods such as up on our farm buildings, and I am convinced that on one occasion at least a charge of electricity was by one of the rods conduce building.
without any damage to the Mr. Dearness seems to be doubtful as to the efficiency of the points. Mr. Baty does not say, but I supp
on mine. 1 believe platinum points are preferred for two reasons: (1) that they will not oxidize, and (2) that
they will not be liable to be fused by a heavy discharge. I have, however, seen a point on one of posed to be tipped with platinum melted down two or three inches. I think that this kind of a rod has the advantage of having many points in place of one
Besides, I am not sure that a perfect point is Besidess, I am nave observed a great many cases of telegraph and telephone posts being split, and where evidently the electricity had passed adong been provided with a real point; the ends of the short wire attaching the main wire to the insulator would
be the nearest approach to a point.
I agree with Mr. Dearness
that the cedar blocks might just as well have been disjust as wed with. He, however,
pensed
seems to think that insulators seems to think that insulators are necessary and that the cient. I believe there is no need for insulators. the
theory that I believe to be the correct one in regard to the phenomena of lightning occasioned by an unequal distribution of electricity ampitg $e . g$., one cloud becoming more heavily charged than another cloud, or than the
earth. When such bodies approach each other there equilibrium is restored by the body that is more highly charged parting with its sur-
plus electricity to the other plus electricity to the could conect the highly -charged cloud with the earth by a good conducto
equilibrium would be restored without any lightning or thunder; but in traversing the space between, the friction
of the atmosphere with the fluid travelling at an incon ceivable speed causes a blaze of light and the crash that w call thunder. Now, as we the cloud with a conductor
we try to intercept the fluid we try to intercept the fluing
before it reaches the building

Ice House
' $16 \times 18 \mathrm{ft}$

About two feet from the ground the rod was
burned entirely through and injured in other places. Middlesex, E. R., Ont., Aug. 13th, '97. [Note.- With regard to the point raised by Mr.
Robson, Mr. D. C. Macdonald, Manager of the London Mutual Fire Insurance Company, which carries farm risks amounting to the sum of $\$ 15,000$, 000 annually, states that in the experience of over a quarter of a century only on about half a dozen occasions were barns struck that were protected with rods, and these were not burned ; but the ver $\$ 25,000$ annull during tha portion of this sum, however, being on live stock. Editor

Rainfall, Tillage, and Stock the Secrets of Successful Crop Raising.
To the Editor Farmer's advocite:
Sir,--To attribute the lighter crops of the last ew years altogether or even mainly to exhaustion under a false impression. There are two other causes that in my opinion have much more to do

DAIRY.
Cheese and Butter Making at the Mapleton Factory.
One of the noteworthy tendencies in the olde heesemaking sectriginally started and conducted nder joint stock company auspices, the patrons bing stockholders and directors, hands of private individuals, frequently progressthe mutual co-operation of boards of officers, in cluding secretary, treasurer, auditor, and the like. During the stringent times of the past farmes the unds which they had so invested, and were not loath to let factory enterprise be assumed finan In other cases we find groups of factories under the management of one individual employing makers, and who, if he is not now actually enaged as such, has hasable of overseeing properly what is being ore capable of overseeing poble to act as salesman and give more constant and watchful attention to way, requiring closer study every year owing to way, requiring closer study every Year owing to final result may be, so far as
our own observation goes the
before it reaches the building
we wish to protect and lead
it

$$
\begin{aligned}
& \text { we wish to protect and lead } \\
& \text { it past as near as possible on } \\
& \text { a direct line from its point }
\end{aligned}
$$ to the earth and giving it a good connection therewith. If these conditions are complied with, I have no fear that electricity once on the rod especially when the rod takes the direction the rods to the building, to the earth as possibe.

Another point where rods are liable to prove source of danger, is the ground connection. Mr. Baty's are certalways sure to be wet, but evervone cannot get a quicksand by boring eight feet. However, a good connection ma enough to insure contact by digging a trench deep enough and burying six or
with clay that is always moist and eight feet of rod in it.
iderable number of buildings supplied with rods siderable number with lightning. I know of only
have been struck win one instance, that of a near neighbor of mine who
had his barn rodded with so-called copper rods. The barn was struck but not set on fire. It had quite a piece of the roof torn up and destroyed, branch passed along. I think there were three
an mapleton, ont., cheese and butter factory. with it, viz., an unequal distribution of the rainfall $\mid$ kins and the square 56.1 lb . box package are used, and lack of sufficient labor, the last being, in my
opinion, the main cause, both the quality and the $\begin{aligned} & \text { the latter being preferred. Assuming a simila } \\ & \text { output for } 1897 \text { (it will doubtless be more), it will }\end{aligned}$ quantity of the help on most farms having deterio- be seen oproducts, cheese and butter, of this one rated during the last can years. secure the necessary
the question how we can bery are bringing into the locality over $\$ 40,000$ fertilizing materials to maintain the producing capacity of our farms by making the farm grow
them, I would say that tillage is manure and so is them, I would say that tillage is manure and so
shade. Eschew the naked fallow as you would a shache. Eschew for as fast as you liberate plant food from
robber,
the soil by tillage the sun will take it if not shaded. the soil by tillage the sun will take it if not shaded In the next place, you need not be afraid to sel can buy a ton of bran and have a little money left
Don't sell peas, nor hay nor straw. Thirdly, by al Don't sell peas, nor hay nor straw. Thirdy, by all
means keep all the stock that you can grow feed means keep all the stock that you can grow leed
for, and don't be afraid to buy some feed, os long as you can sell it through your stock at a profit.
That is a good business. The good dairy cow, if handled with skill, will pay a larger return for food and labor than any other stock, but to a great many men the cows they keep are a delusion and a
snare. But whatever kind of stock you keep, make
sure that they sure that they pay their way. Don't guess at it,
but use your pencil and make sure. It is no credit sure use your pencil and make sure. It is no credit
but un and to work for nothing and board himelf.
to a man to
Perth Co., Ont.
C. D. SWANson.
per yo the day of our visit, August 10th, a new
On creamerv wing had been completed, and the cream
from 12,000 pounds of milk taken in the previous Saturday evening was being made into over 450 pounds of butter, at a charge of $3 \frac{1}{2}$ cents per pound of the patrons, who get the skim milk; 28 pound The average for winter months last season was : December, 20.23 lbs.; January, 1988 lbs. : February, ceds are ; March, 22.75 lbs.; Aprige 24.8 ibsined by the Babcock test ; but this plan has not been applied in the cheesemaking. Most of the Saturday patrons, thus doing away with the trouble of farm buttermaking, and, what is still more important, Saturday entirely that long-standing grievance, plorable feature of the business that ought to be removed as quickly as practicable, and which has
been done in a good many cases. Where still car

September 1, 1889
ried on, as many of our readers are aware, it
means that the Saturday nights milking brought means that the Saturday night's milking brought
to the factory has to be at once made up, requiring the makers, already weary with the week's hard greater part of Sunday forenoon; so that apart
from the question of imposing upon their personal scruples, thest virtually get no day of rest; nor is is often below the mark in quality. The explanation given is that the patrons are unable to keep
the Saturday night's milk till Monday morning wid it might be difficult to handle it and if they cheese factories), and they prefer to buy butter do a good deal if he wants to, for we heard of on
who at one time wanted his Sunday morning' milk cared for in the factory, as he couldn't do it
all at home, but under the new order of things he all at home, but under the new order of things he
figured that he might make a little more if the
Saturday night's milk were made into cheese and Saturday night's mik were made into cheese and
was able to Keep it all pure and sweet till Monday
morning. At the Mapleton factory we found that morning. At the Mapleton factory we found that washed up ready for the work of the following
week before half-past 10 o'olock. If this is not a consummation devoutly to be wished for by all
concerned we should like to know what it is. It occurred to us that a plan and a few explanitory notes on the Mapleton factory, particu-
larly the new creamery wing, would be of general
value to dairymen, especially those about to build and improve their premises. The establishment is located about half a mile south of the village, in
the valley of the Cat Fish Creek, the supply of opposite hill and flowing through pipe by gravitation into the factory. The cheese factory part to
the right in plan is frame, but the new buttermakthe right in plan is frame, but the new buttermakstudding and then lined and ceiled inside with V
siding, painted drab. Of the building itself, the most striking feature to us was the floor, made of smooth and hard as a piece of marble. In the bottom next the soil about five inches of sand and gravel were pounded firmly in; and next a layer of to one of cement) was laid ; then one inch (one and one-half to one), and as a a finish floated with
thin coat of pure cement. There is a slight "fall" thin coat of pure cement. There is a slight "fall"
to the small gutter in the center for carrying off waste water and washings. All around the edge of the floor at the walls is a couple of inches rise of cement concrete, so that the dampness will not
come in contact with the wood work. The stand or come in contact with the woodwork. The stand or
base for the separators is about a foot high, solid concrete cement. Two No. 1 Alexandra separators
(capacity 5,000 lbs. per hour) are in use, but there is (capacity 5,000 lbs. per hour) are in use, but there is
space on the stand for a third, as the diagram shows. The separator belting is driven from a similar stand opposite. There is a 400 -gallon churn, power butter worker, two cream vats (capacity 200 and suspended above it a tempering vat with five channels, outside lining galvanized iron and surrounded with chambers for regulating the tempera-
ture. The refrigerator for storing summer butter has a capacity of 2,400 lbs. The churns, vats, etc., were from the establishment of Richardson \& Webster,
St. Mary's, Ont., and the 20 h . p. boiler and $15 \mathrm{~h} . \mathrm{p}$. St. Mary's, Ont., and the 20 h . p. boiler and 15 h . p.
engine were from E . . ponard \& Son's works, London. Roomy covered porches protect the wagons
where milk for factory or creamery is being weighed in; and the whey tank, which our arand washed out with boiling water once a week, as it ought to be, for the vile old underground whey tank, which we still ind in some places, is a breeder
of villainous bacteria that would frustrate the efforts of the best of cheesemakers, and has no
place in a modern establishment of this descripMr. Brodie's price for making is $\$ 1.10$ per 100 lbs . of cheese, the patrons delivering the milk at the
factory. This charge is the total cost to the pat-
rons, as it covers the furnishing of all necessary rons, as it covers the furnishing of all necessary
material and appliances, boxing the cheese ready for shipment, cost of selling, secretary's salary, insurance on the cheese, and an
incidental outlays necessary.

Stringy Milk.
Mr. John Speir, waiting to the Scottish Farmer plays a most important part in all dairy matters, and all bacteriologists Who have directed their
attention to stringy milk have arrived at the same attention to stringy milk have arrived at the same investigations have also brought to light the fact that several forms of bacteria may cause stringy milk, and that stringy milk cannot be produced
without infection. In Norway and $S_{\text {weden a }}$ certain class of " stringy milk," called "lange milk," is sold as an article of commerce, and this
milk is said to be produced by feeding the cows on a mikticular plant. Tests made by bacteriologists particular plant. pests made an effect, and at the
did not, however, produce such an
present time all evidence seems to point to every present time all, evidence seems
case being the result of infection.
The bacillus which is supposed to be the princiThe bacillus which is supposed to be the princibeau to retain its vitality in September in a
sample of milk to which it had been inoculated in
floors, walls, and air of the byre, on the udders and
bodies of the cows, and on the vessels. which hold the milk or by which it is carried. It is said to be very difficult to kill, and nothing but, the most
scrupulous cleanliness in everything, from the cow scrupulous cleanliness in everything, from the cow
to final delivery of the milk, including milker's hands and clothes, will get rid of it. While in Switzerland in 1899, at the conference of the British
Dairy Farmers' Association, I had a conversation with Professor Frendenreich on this suhject, and he said that the bacillus of this complaint was probably more common in Switzerland and Norway ences in Berne he showed those present samples of milk, all from one pure source twelve hours before, each of which had been illus causing trouble in the dairy. He dipped hie pencil into the milk to which
a cultivation of this bacillus had been added, a cultivation of this bacillus had been added, and when lifted up, the milk, by simple adhesion,
was drawn out into a string one to two feet long. was drawn out into a string, one to two eet lanity of seeing other samples of good and bad bacteria
which are commonly found associated with dairywhich are commonly found associated with dairy-
ing, and heard from him the extreme difficulty of ing, and heard from him the extreme
ridding a byre or dairy of this bacillus.
While warm weathe
While warm weather enables this bacillus to increase, it should also give your correspondent a
favorable opportunity of thoroughly disinfecting his whole premises, cows, utensils, and people. Lime wash, with some strong disinfectant, should be freely used; the dairy utensils should be thor-
oughly steamed or boiled longer than usual, for oughy seamed or days successively; the cows' udders and bodies should be washed with some weak disinfectant; the clothing of the milkers and those handling
the milk should be entirely renewed; and the the milk should be entirely renewed; and the precautions are carefully carried out, the mischief
may reasonably be expected to be got rid of.

The Exposure Confirmed.
In the Farmer's Advocate for August 2nd we published the result of a careful and impartial much-vaunted but wateen Butter Maker," ducted at our request by Mr. F. J. Sleightholm Supt. of the Western Ontario Dairy School, and published for the benefit of Canadian dairymen A good many parties, we find, have been drawn into correspondence with its promoters though advertisements of it given a place in Canadian weekly papers that ought to have known better if they had any regard for the interests of the readers. Mr. Manson Campbell, President and Manager of the widely-known fanning mill manuwhom the Queen people had been negotiating, writes us as follows : "I see your report on the Queen Butter Maker, and it is the same resulc as we
got from our investigation."

Discoloration of Cheese.
$\qquad$ DEAR SIR, - In the ver y clear and conc se review Aug. 16 th , it is stated that Dr. Connell was not scribed species the micro-organism with any desis (after Mr. Ruddick). This is not correct. The reference is to the co
and not to my name.

THE HELPING HAND.

like a wheelbarrow frame, put the wheel togethe wedge-shaped piece of wood on each handle (as
shown in cut), then put a wood shown in cut), then put a wooden peg in each side
to slip the can handle over, and you have handy rig. To load the can raise the end of the
barrow handles up over the can, then let them down one each side the can ; raise the milk can handles
up, pull the barrow back so that the can handles up, pull the barrow back so that the can handles
will slip over the pegs, then lift the harrow handles
and wheel it where you please," and wheel it where you please.

A Change for the Better
J. R. Manning, Stormont

25th writes: "An agent for the me have the paper 16 months for just then as tho
changed my mind.

No. 8.--Summer Work for the Beekeeper bY A. e. hoshal, lincoln co., ont The successful winterig of our bees is o and thorough preparation. September is when our apiary from the close of the summer honey
flow up to this tim If at the close of the honey flow in July vided there be but little or no honey for the bro to gather thereafter) we have been careful to leave brooding, then when the time for winter prop it tions arrives, about the 10 th or 15th of September we will find our hives well filled with young bee instead of old ones worn out with the season'
work and ready to die. This is as it should be. Never after the first of September tolerat longer a weak or queenless colony in the apiary are strong It is much better that this be until al are strong. It is much better that this be attended
to earlier in the season, even before the last of July if possible.
About the second week in September remove al
surplus cases and honey boards from the hives, contract their brood chambers so that every colan will be crowded for room and every comb well will contain about five to eight is done each hive or their equivalent ; if the colony is exceptionally strong it may require ten such combs. Every colony whose hive is not well covered with bees
when contracted to five Langstroth combs or their quivalent is too weak to risk in wintering, and sqould be either strengthened or united with, some other colony.
Next see
five or thirty pounds of colony has at least twentyfive or thirty pounds of good capped honey, and if
they have not they must be fed. This perhaps
with many will be most conveniently done by with many will be most conveniently done by
removing the empty combs and inserting in their removing the empty combs and inserting in their
place full ones, if such are on hand, but if not they should then be fed sugar syrup.
To make this syrup take one pound or a trifle
more of water to three pounds ot the best aral more of water to three pounds of the best granu lated sugar and bring to a boil; then for every ten
pounds of sugar used add a teaspoonful of tartaric acid previously dissolved in a little water, and in
about one minute remove from the fire. If allowed to continue boiling it will soon be taffy.
The full amount of this syrup which a colon requires should be given to it if possible at one
feeding, which should be done in the evening just before sundown, with the syrup about milk-warm or a little more. For this purpose a large feeder like the Heddon or Miller will be required. Should be given the evening following; but if this feeding is continued for more than two successive evening it will start brood rearing, which may prove more
or less disastrous in wintering. About six pound or less disastrous in wintering. About six pounds
of this syrup will have to be fed for every five pounds you wish when stored and capped in the combs. This feeding should be done from the will give the bees plenty of time to evaporate arrange to their liking and cap it before they begin to draw together and cluster the same as in winter during the cool nights of October. Strenuously
avoid having the feeding done any later than September. first week of October the following condition composed of young bees and strong in point of numbers, will be crowded for room in their hives,
will have from five to eight Langstroth combs or will have from five to eight Langstroth combs or
their equivalent, and not less than twenty-five or their equivalent, and not less than twenty-ive or
thirty pounds each of good sealed honey or sugar
syrup. Whether to be wintered inside or out the syrup. Whether to be wintered inside or out th
preparations thus far are the same. o be placed in their winter rew only have settled cold weather arrives, and just after they have had their last fly, generally in November.
Those to be wintered outside, if in single walled hives (and these are preferable for all seasons of the year), will have to be packed about the last of
September or first week of October. For this September or first week of Octoher. For this purpose a plain box with a loose bottom for
venience in unpacking, a flat cover, and made im
pervious to rain pervious to rain or snow, will be required. This box must be of such a size and made in such a way
that when a hive is placed in it there will be a two inch space underneath and all around it and a three nch space above it for packing. A larger space this box pack firmly underneath, about and above cut hay or straw, or leaves, making it a little full
so that when the cover is put on it will rest o that when the cover is put on it will rest on the opening for an entrance will have to be made in the packing case and the hive entrance bridged to when the packing is in. An ass in and out freely
to the packing case board fixed the bees can alight on it when coming in and gain
the and Pasy access to the entrance. When all is completed
and the bees snugly packed in it allow it to stand in the sun, having it painted some dark color so as
to , boorb heat rom the sun, which will be con-
iderathe, and will be communicated to the packing,
hive, and bees within.

## POULTRY.

What Our Exhibitions Do for Poultry. Western Canadaj Great Industrial Exhibition
 especialiy ine of the rapid development of all the
living picture
useful varieties.
Birds that several years ago would have swept the board are now out of the
swim. The Barred Rocks and Wyandottes are increasing in popularity, every year showing a larger number of exhibitiors and exhibits, clearly proving the value of exhintry ins which close competition and
 improvement, but we are all striving to produce
the 100 point ideal birds, and by perseverance and close culling hope to " get there." On account of the season it was impossible to score the birds and
they were judged by comparison, but 1 am strongly they were judged by comparison, but $I$ am strongly
in favor of each bird being scored separately. know there is a strong feeling in the East against scoring, and I quite agree that unless done by a competent judge many score cards are misleading,
but in this new western country where most of the poultry owners are, comparatively speaking, beginners, it is neeeesary to know in what way our
birds are deficient. For instance, I send a bird to the birdsare deincient. For instance, I send a bird to th
show and see by the FARMRR's ADVOCATE that show and bee hy the FARMRRS ADVCATE tha
three other exhibitors have taken frst, second, and third - no mention of my bird, wrich second, been
returned without any remarks. How am I to know returned without any remarks. H How am I to know
the reason my bird was not in it? It may have been overlooked altogether, as has sometimes been the case. On the other hand, if I receive a score
card with the bird showing the deficiences in each part I can at once see where I am going wrong and
endeavor to improve. All poultry judges are supposed to go strictly by the rules laid down by
the "Standard "a book compiled by a committe composed of the leading poultry breeders in the States, assisted by the various specialty cubs, who
meet and discuss the necessary wants of the breede they represent and notify the Standard Committee
who then compile a list of disqualifications and minutely describe each section of the bird and have a separate standard for each variety of fowls. Thie makes a very useful book and can be purchased
$\$ 1$ at the present show I was sorry to see that size was in some casee overlooked and prizes given to speci-
mens slightly better marked but deficient in size mens slightly better mark mailly noticeable in the and build. This was especias, where a magniticent pair of well-developed early-hatched birds did not
take a place on account of their lacing not being take a place on account of their lacing not being
sufficiently open. I consider that size and build, especially in the useful classes, ought to be a strong point and that markings alone should not carry ${ }^{2}$
bird into the leading positions. At the same time bird into the leading positions. At the same time sideration, as they show the good breeding of a
bird or condemn it as a crosg or mongrel unft to use in breeding pen for producing pure stock. In
the $W$ hite Leghorn class some solendid birds were the White Leghorn class some splendid burds weral
on exhibition, and the judge said were fully equal
to any exhibited in the Statates or Canada; but here to ony exhibited in the states or Canada, but here
again I think they are spoiling the breed, paying again I think they are spoiling the breed, paying
too much attention to size of comb and position of taii, muchaning size. Leghorns are one of our best
taving breeds, and we should improve by using
laying birds that lay the largest eggs and using cockerels even if they have a tail slightly over the angle. This spring I used an imported English cockerel-a grand bird for size and color, but no show ird
according to the present American standard- and
and arcording to the present A merican standacting for
mated him with hens I have been selectine egg.
years for size of body and layers of large en en years for size of body and layers of large eggg.
Their eggs are quite as heay as W yandottes or
and put three in the incubator compartment made for
tour ordinary eggs. The chicks from this mating give promise of better size, and I think some will hold their own in the show pen. The Liight Brah. mas exhibited at our late show were al aree class of
grand birds Aere the American style is far ahead of the English, being a merng, rangy better built
bird with moderate le le and toe feathering, and good layers the the Enlish birase being bred more in
the Cochin shape, with immense bunches of feathers on the legs and toes. The fanciers have done
grand work in developing all the various breeds, grand them pure and improving in every possible way, but by going to extremes in core have been sng many of our best unpopular. The Mavmoth
spoitt and becono
Bronze turkeys of the present day have been rightly named, and the fanciers who developed
 ought to receive the their ideal, and at the same
and stamina have been then bron imparted by bord
time the magnificent bronze ime tinually crossing with the wild turkey give a a bird
which for size, beauty, utility, and health far out strips any other breed of turkeys. Here again
think it is a great mistake for our sumerhi-
exhe bitions to offer any prize for turkey chicks. They
are naturally delicate when young and love liberty. are naturally deica in a close pen for a week they
When cooped up
make sorry objects and do not reflect any credit to the breeder, their mournful cry showing how un
comfortable they are. They are alsory iable to
cole
contract disease and take it home to the rest of the
flock. At the show last month one had to be kille
for roup, and those certain to contract the diesease. Tbelieve that the
climate and conditions of Manitoba are especially adapted for raising turkeys, and there is nothing to prevent every farmer having some to dispose of yearly and raised at less cost than any other
produce of the farm. I find them easier to raise than chickens. Of course. I am only referring to the Improved Mammoths Brorzze, and they must be never inbred, even for a single season. 1 have at end of May have stayed out with the turkey hens day and night, wet or fine found their own food,
with the exception of a little bread soaked and with the exception of a little bread sooked and
squeezed dry the first few week, and now a little wheat morning and evening to prevent them
straying to far away developed and uniform in size. This is all the result of improvements brought about by compar
ing and competing at our exhibitions and profting by experience.

## VETERINARY.

## The Tuberculin Test Instruction

To the Editor Farmer's Avoocatr: SIR -A bulletin has recently been issued by the SIR,-A bulletin has recenty been issued by the
Ontario Department of Agriculture upon the subject of tuberculosis. It states, among other things
as has been announced in the FARMER
advo ATE), that Lieut. Col. McCrae has been appointed of testing the farmers of the purpose will
stitutes, etc.
Looking at the matter from an outsider's standpoint, it seems strange that anyone outside of the veterinary profession should be selected to give inCol. McCrae is, we believe, an estimable man, prominent in volunteer circles, and a successful
breeder of cattle, but what special qualififcations he may have for this peculiar function remains to be may have What is the matter with the veterinary
sear. What
unat surgeons of Ontario? Are none of those
recently underwent an examination on this ject before the officers of the Dominion Government qualified for the position, or is a partisan to be rewarded regaraloss of the fithess or inings? temperatures, to be measured with a thermometer and which anyone can apply; it is a system based on the injection of tubercuin, but also taking int physical signs of disease, and all the circumstancee pecuiar to the individual anima, which al a ay be misleading and cause serious errors. This sys tem is reliabbe in proportion to the skill of the pe
son using it, and should naturally be entrusted to those whose scientific training and experience o
animals peculiarly fit them for the task, namely animals pecuiliarly
the veterninary surgeons.
ers in a a veloy a colonelof artillery to instruct farm Why not engage a blacksmith to teach them gar dening or a musician to impart astronomy? FRED TorRANCE, B. A., D. V. S.
Winnipeg, Aug. 2 th th , 1887 .
QUESTIONS AND ANSWERS.
 parili, in cases where earily replies appear to us adrisabio ; all
 Rnauarrers must in all eases attaen their name
In full, though not neeossarily for publication.l

## Veterinary.

- Ving bloony milk

Mrs. A. KeNvedr. Carleton Co., Ont.:-""
have a cow that is troubled with bloody milk in one teat. She is in good health. I have tried
linseed oil, salts, and several things without result
 to injury of the internal lining or macous mem brane of the teat or udder, and when due to an injury may persist for months. Tot eatmer twice
ment the udder and teats with hot water day, and support bv means of a blanket or shee
over loins. Give Epsom salta, one pound ; Bar badoes aloes, one ounce ; in a quart of warm gruel repeat in a week's time. Apply to the udder and
teat the following liniment after fomentation tiniment Saponis Co., four ounces; tincture of cam
liter
phor one phor, one ouce. .
glycerine,
D. W. WM. Mous.
W. Wenman, Souris, Man.-. pears to have become totally blind. Don't know horns to tie her out in pasture. Firirt noticed eye discharging water $\dot{\text { now }}$ nogrow fhe finely-pulverized
the ball of eye. Have heard of the bain being blown into eye to remove growth of
glask kind, but it seems too severe. What would
this If the growth you mention is of a fungous or
warty nature it should be removed with the knife
and the parts dressed daily with a solution of the oft water. eight ounces. There is a disease of
 loma, which often neeeesitates the, removal of the
leyeball before a cure can be accomplished. If poseyeball before a cure can be accomp surgeon.
sible, show the ey to a veterinary s.
W. A. DUNBAR, V. S., Winnipeg.

Miscellaneous.
fall and spring wheat mixed.
Henry Paul, Victoria Co., Ont.:-"Fall wheat was sown with spring wheat by mistake, so two-
hirds is fall wheat, sufficient for a crop. Would it be advisable to leave it? It was sown one an pasture it, it being now nearly thick enough to cover the ground? Please advise.
[If fall wheat doos. well in your section we think
it would be well to plow down the prosent crop it would be well to plow down the present crop.
Roul the land immediately after plowign harrow
will weil, and repeat the harrowing after oach shower
of rain to retain moisture and solidify the land. of rain to retain moisture and solidify the hand.
Sow fall wheat about firet September, and if you Sow
wish ho seed down to grass sow six pound timothy
 may be pastured till you get time to plow it down,
but the sooner it is plowed and the surface tilled but the soon
the better.]
iending an old rook
Jamps Robertson, Grey Co., Ont.:-"I would
ike to know if any of the subscribers to the AdvoCATK have ever tried putting tar and fine sand on an old shingled roof to make it water proof. have an ond
or reshingled. If anyone has tried such a method or reshinglied. If hear from them."
[One of our staff a fow years ago observed a good
many attempts to rejuvenate old roofs by the usi many attempts
of tar and other substances, but the experience of of tar and other substances,
those who had the work toe reverse of satief watory, , ome of those who tried it coming to
the concluion that new shingles would be decidedthe conclusion that new shingles would be decteer
ly preferable. We would like to hear from others,

hens dying.
A SUBSCRIBRR: -"My My something like distemper. The head and comb become canck iney pass an yeleight will be found dead in one morning. They are fed potatoes, oatmeal and corn-meal porridge
and oats ; have plenty of good fresh water. Please and oats; have plenty of good for
give cause and prescribe cure."
give caure and prescrine cure. symptom of poison, as
you gay they are only sick a short time. Have you used Paris green or any other preparation to
remove bugs from trees or potatoes? Geting
 apoplexy, caused by exceessive fat and the exertion
 time sick, must be caused by some violent
sow THISTLE (Sonchus arvensis).


[The weed sent us is clearly corn sow thistle. It is a creeping perennial that has made a rapid
spread over many counties in Ontario Province, spread over many countiee in in ontario Pront has an upright habit of growth, from one to throe foet
high. t is forten branched owards the tor like the Canadian thistle. The stems are hairy and bristly,
the leaves resemble those of the dandelion in form, but are larger and have pricklees on the points and
buen the plant is wounded it
 yellow, resembing those tand aridy Ate

 tinues to grow until the autumi. sediossoms in
July and later, and soon ripens its seed, which are very numerous. It is propagated by means of its seeds and robs. Men sead like those of the Cana having astairy the seeds may also be carried in rass and clover seeds or in grain. Its propagation by the root staiks the creeping root stalks are histie. Al along bue crieep seg ur up new plants.
numerous latent but
The secret of eradication lies in not allowin sued the secret, and also in clean surface cultivation, which serves to cut off the upright plants withou
disturbing the creeping root staks, which are always a Pew inches under ground. A well-worked
and summer.fallow foillowed do good job. The writer hoed crop bad field in this way by plowing down a heavy crop of buckwneat be cultivated the plants
Where the land canno Where the land cannot be cultivated the plan
should be spudded off just beneath the surface.) chicory, wild carrot, dodder.
Mr. CharlyoN, Middlesex Co., Ont., hands in
ecimens of three weeds from new clover field specimens of three weeds irom new ciover held
which threaten to give trouble en his locality. Hee asks us to identify them and
and the

Septiember i, 1807
(Cichorium Intybus), wild carrot (Daucus Carota), Chicory is a roughly nia, with large, showy sky-blue flowers, commonly growing in grass fields and along roadsides. It has a long tap root like that of a dandelion, which
is often dried, ground and used as a substitute for coffee. As a weed it soon becomes troublesome if neglected, but good cultivation will prevent its
getting ahead, and will even destroy it if pereisted getting ahead, and will even destroy it if percisted elds that are not desired to be broken up that same season, the spud is the most effective means of In pastures or by-places the effort should be to to allow the plant to blossom before cutting in
such locations, as they will then have considerably Wild Carrot is a biennial bearing a close resemblance to the culivated variely, morespecialy in which is considerably branched. When in blossom or head it might readily be mistaken for a tame carrot is smaller It com up early in the season sending up long flower stems which terminate in flower clusters. These produce seed numerousily, and when cut off above ground send out other late in the season. It is not generally troublesome to crops where the usual cultivation is good, but is more commonly found in pastures, meadows and bation will kill it out. In permanent pastures the plants should be cut very close to the ground as often are not too numerous they may be destroyed by spudding the
Dooder is a leafless parasitical vine with reddish-
yellow threadlike steams. It germinates in the soil, grows up and twines around succulent growing plants like clover. The root of the dodder then dies, while its vines continue to live on the juices of plants, while it continues to produce reddish-white plants, while
flowers, and finally seed. It can be destroyed by
cutting and buning the infested patches before cutting and burning the infested patches before
the seed forms. the seed forms.
Specimens of each of the above plants have
and been sent us from farms in Westminster Township near London.

TIMOTHY with LUCERNE.
James RidDLE, Norfolk Co., Ont.:-"I am
oing to sow a piece to fall wheat and seed it in the going to sow a piece to fall wheat and seed it in the
spring with lucerne. Is it necessary to sow timothy seed, and when?"
[II would not be advisable to sow timothy along
ith lucerne, for the reason that lucerne is so different in its period of growth and maturity, different in its period of growth and maturity, grown with the lucerne, which does well alone if a good stand is secured, orchard grass would
suit well, and should be sown along with the lucerne in the spring at the rate of 10 to 12 pounds per acre.]
sick hens.
A. W. Morrow, Northumberland Co., Ont.:they act as if they. There blind. After suffering for several weeks they generally die. They are run-
ning outside, and pick their own living." Thee symptoms mentioned in Mr. Morrow's inquiry might indicate many forms of disease, and
almost always accompany a debilitated condition of the system. This might arise from their drinking from stagnant pools of barnyard water, and also from infestation of lice. It is possible that an
introduction of new and vigorous blood would do much to prevent such trouble in later years, pro-
vided sanitary conditions are looked after. would suggest first of all, that plenty of fresh, pure water be given to them, and the whole flock be
well dusted with insect powder. It would also be well to isolate those that show slight symptoms, and destroy any that are far gone with the diseased It would be well also to give the whole flock a good purge weep the flock enclosed till next morning. Then mix two heaping tablespoonfuls of salts to a pail of soft feed, and allow them to take all they
will. It would be well then to give a tonic known as "Douglas' Mixture," made up of a half-pound of sulphate of iron dissolved in an ounce of sulphuric acid added to one gallon of water. Mix the two to-
gether, and add two tablespoonfuls to a pail of gether, and add two tablespoonful
drinking water every second day.]

Young Farmer, Halton Co., Ont.-" We have four acres fodder corn and would like your advice of work to shock and cure corn properly, and then there is always a deal of waste in that way by mice, squirrels, weather, etc. What would you
advise us to build at this season? Would cement advise us to build at this season? Would cement
concrete answer better than wood? Would frost injure it in an exposed place? I like the ADvoCATE very much.
|Young Farmer is wise in deciding to build a
silo. Were it earlier in the season we would advise silo. Were it earlier in the season we would advise
building of cement, which should invariably be finished six weeks or more before being filled in order
to have it well hardened. Frost would not injure
a cement sile put up early in the season." We
would without hesitation recommend at this late
 constructed, and very satisfactory. Four acres or
good corn should
bo into a silo 14 feet in
aiameter by 25 feet high. Wo would not think it wise, how.
ever, to put
 high 130 tone, This quantity should ordinarily be
grown on from eight to ten acres. For descrip-
tions
 silo, May 15 hth , page 224.1

THE•BOOK TABLE.

## Pigs-- Breeds and Management.

This book is No. 5 in the list of five stook hand
books published by Vinton \& Co., London, Eng., and completes she series of their recent, publications on these
subjects. It is uniform with the former vo umes in size, subjects. It is uniform with the former vo umes in size,
printing and binding, and is a very creditab e prodiction, ininting anters, writcon by the weil- rnown anthor of swine
 a chapter on on iseases of the pig, by Prof b. Wortley Axe
and a chapter on bacon and ham uring, L . M. Douglas
and
 engravings of pizs of difiterent breeds and varieties and a
pair of model
 oxperience as as accosfa in especial manner to give counsel
swine qualits him in and
and advici on the subjects treated in this volume. His and ad vice on ithe subjects reastad in ineds and breeding, as
ideas on the intricate question of well as upon the se:ection, feeding and acara of pigs under
various conditions, are thoroughly practical and commend themeselves to then, judgenent and compon sonse of the reader.
while the literary composition of the book is all that woud while the literary composition of the book is all that wound
be expected by those who are familiar with the easy and be expectet
graceflut style of the the muthor, who has long been a valued contribtor to the agricaltural papera of England and America. The chapters on diseases of the pig, their treat-
ment, and on bacon and ham curing, are well written, evince
 anch useful information and many valubble hints. The
manject of swine rasing is one of peeuliar interest to the subject of swine rising is one of peocliar interest to the
farmer at the present time, as the prices current for bacon armer at the present ime, as the prices current for bacoin
hogs place this quite outside the pate of the depressed
ind
 when it comes to net return of go d the Canadian h hase
leaves the average mining elsimm simply out of sight.

Cattle-- Breeds and Management. We have received from Vinton \& Co., London, Eng., No,
of their new series of live stock handbooks, entitled
 Hortiey Axe, a book of 270 pages, substantial. y bound and well printed on good papper, and containing 35 excellen illustrations of representitise and Channel I Islands atteren
r.cognized breeds of British The history of the origin and development of the varion breeds from the original speciess and the changes effected under domesticstion, involving the evolution of the distinc
classes of beef-producing and dairy animals of the present casses of beef-producing and dairy animalis of the presen
day, is clear and comprehensive, and will be read with intense intor at by the student of the sienene of breading. The subject of breeds is treated in six chapters, while on chapter is devotad to management and records, in whic
many very useful hints are given, evidently as the result o
 excellent reputation as a re iable and int alligent writer on
agricultural and live stock topics, and is a frequent contributor to the leading farm and stock journals of Great Britain, while Prof. Axe's chapter on diseases of cattle -
their symptoms and treatment, is conched in plain and their symptoms and treatment, is conched in plain and
easily intelligibe language, is eminently practical, and the the lreatment preseribed is in most cases sach as any inteligen well worthy of siflace in the library of every farmer, dairy

There is Only One Best.
The Reliable Poultry Journal, of Quincy, Ill. has the following to say :- "A reliable agricultura paper is now an indispensable adjunct for the farmpublished at London, Ont., Canada, and edited b b practical men, fills the bill in many respects. An examination of its pages will show that it overlook no department of farming, giving probably double
the serviceable, up-to-date reading matter of any other paper of the class at so reasonable a price We do not wonder at its increasing popularity and immense circulation.
Jas. McMahon, Lambton Co., Ont: :-"I find
that I cannot get along without the Finer that I cannot get along without the FARMER',
ADvocate, the best agricultural journal in Canada." O. A. Crandall, N. Westminster, B. C:-"I
must say as a farmer's paper it is unequalled by anything I have seen."
John A. Walker, Ontario Co., Ont., under August Aut issue of the FARMEF's ADVocrate Augul you please send me a copy, as 1 think so
much of it I do not want to miss a single colre, We might fill an issue of the FArmer's ADNo
CATE with testimonials like the above, but it is no

SHOWS AND SHOWING
Autumn Exhibitions.


## The Western Fair

Before our next number will have been issued the Western rair, of London, Ont, will have been in fuil swing
for several days. It is therefore our pleasure in this num. ber to draw special attention to a few facts which exhibitors
nd visitors should understand. While the entries already
 same date, there are many entries of live stock yet to be nd ratifeal by the direce ors, entries sent in antur Septt. 9th will not be accepted nor the animals allowed to enter the grounds. This rale is in the interest of oxhibitors, so that
ruper accommodation may be given to all. There is no coom for doubt that the 1897 exhibition will surpass any of its predecessors, and will be more than ever patronized by
hhe citizens of Western 0 outario, who have reafed such an extraordinary harrest. This, of course, will resenglt in many
good live stock sales which will prove beneficial to all concerned. We wolld also rexind our readers of the extent and
attractiveness of what are term'd the ring attractions, hich afford a great deal of real pleasure to all aggas and
 Ali, and his wonderfui aggeregation, consisting of the
Whirlwind of the Desert, in their flying loaps over pointed Whirl winds of the Desert, in their fling leaps over pointed
bas onets, gun spinning, Moorish drill and sword exercise on Chyses, human pyramids, juggling, and fance tumbling;
hechille Phillion, marvellous equilibrist, on his spiral tower Achille Phillion, marvellons equilibrist, on his spiral tower
and revolving globe ; Rossow Midgets, pocket edition of and revolving globe ; Rossow Mrigets, pocket ent hion ort
men, in exhibitions of acrobatic skill, wrestling, and the art of self-defense ; Roy Burton, juggler and swinging wire rifle shot ; Shields, the Rube trick bbeyclist; OZzar, the French clown; Lowell Bros., fanniest comedy acrobats; , Littilis,
 ston and Williams, America's most finished bar artists ; the three Deltorellis, musical comedy artists; together with the
bildren's amusements, c nematograph, Spanish gondolas, merry-go-round. and many others. The four evening entertainments will elipipse any thing before presented to o London,
audience. The jubilee pyrotechnic display by Prof. Hand, assisted by all of the above artists, will be something to rememter for many a day afterwards. Prize list and pro-
prammes can be had for the asking if any have been overprammes
looked.

The Central Canada Fair.
On September lith will open the Ottawa Exhibition, for put forth for its succoss. Last years' fair, because of the capital arrangement of the grounds and enterprising con-
ideration of the management, was voted a howling sucocess by both visitors and exhibi ors, which so stirred up the directorate to even greater activity upon the soo ond
"nothing succeeds like suc-ess" until one of the grandest xhibitions of the year is to resu't. So far as accommodition for stock is concerned we cannot well see how hast Ho
 nis hovid prove a great inducement to farmers throughout
and make purchases therefrom. Every visitor should udging ceases at one o'clock each day and is followed by grias of speciel wing attractions on wed by a well-selected
 The three Riohards, the acrobatic stars of the stage; the
Vaidi twin sisters, aerial performers ; the Lebrosas, comedy Roman ring performers; the Barrett trio, acrobatic come.
dians ; Potter and Zamora, trapeze artists ; Guy Brotters Minstrres,, twentry-five in in number ; the famons Rossow
midets $;$; Lowell and Lowelli, ecoentrique personification of midgetist ; and others. The fireworke display in connection with the production of the "Taking of the Bastille" at nights will be the grandest. ever seen in Ottawa. As
there will be cheap excursions on all railways none should miss seeing 0 tawas great fair.


## At the Toronto Show.

The Toronto Vietorian Era Exposition now in progresc unch as in many respects eocipses what has been seen in previous years. Exhibitorsa are showing their appreciation ot the
improvements made to
accommodate their
exhibits and improven their interests by coming forward in an unpreoededented manner. In the Ayrshires, Jorseys, and Holsteins there is
a very large increase in entries, and there are nineteen com petitors for the milk tost. In dairy prodncts the sam rule holls. Exhibitors in this department who do no desire to come with their exhibis can airy deasartment to Mr , R. Lawson, Superintendent of the dairy department, whe
will if so instructed by exhibitors, dispose of their cheese Wind butter at the best possible prices and remit the amoun received. $\begin{gathered}\text { fow days ago Manager Hill wrote us as follows }\end{gathered}$ mong them those of Messers. Miller \& sibley, of Franklin Penn. who are formar Jing twenty head of Jersey oattle
 is exxibibiting $a$ flock of fine sheep. Thero, oold have been a large exhibit in swioe from eo
owners did not wish to keep their exhibit fifteen days in quarantine, as required by laws. In poultry there is a very represented. As to the facilities providided, they are greater than evor. Now stables and new pigpens have been
erected, $\mathbf{a}$ new horse ring for harness and light horses has been constructed, and the machinery hall has been repaired, the roof reconstructod, and four feet to the east.
"The attractions will be on a very fine secale, Besides
the Jubilee parade and the historical tableaux there is a long programme of special attractions, to which additions are boing continuousily made. Then theere are the fireworks,
the pyrotechnie Union Jack which shows the colors of the
 Hag in fire mancoarres by
and many other foastures."

## MARKETS.

## Rules for Horse Sales.

The following are the rules observed in the Chicago horse market:
trom horse sold sound mast be so in every particular, free
and able to pass a perfoct veterinary oxamination. Ahorss sold serviceably sound must virtuaily be en berfect orse for ail usetul purposes of wind, not lame not oriber, and be able to do aa
 sound and be a little rounding on the crad from tiftula, or
curbed or branded. He cannot be cearred
have a hip down, but may bilighty out out at the knee, or
 blemishes that constitute deformities, or bemiehes and scars
that deteriorate his alue mor than, atrifif, or that in any
and
 good worker, not a with himi for a worker only must be a good worker, and A horse soid for a worker only
all imperfoctions go with him.
A harse
herse
 nust have all other qualities recommended bit the auctionoer nust have al other qual Anes horse proving difirerent from the
at the time of his giel
rocommend on which he is bold can be reveetere, but the par rocor must examine and try the animal on the day it sold, or within the erequired time specified by the rules and reguia
iows governink salos adopted by the Horse Commision tions governing sales ad
Union at the Stock Yards.

Toronto Markets












mand by distillery men and farmers to place on grass. Pricee
from 3. to 3 eper per Shecp. - Export sheep in fair demand and sold at 3o. to 33.
Bate
gate Lambs were a little stoaidier, seiling at $\$ 9.75$ to $\$ 3.50$ per
 sold readily at from \$it to was per head.
220 Milk. Cor ohoice veals ; a s20 Milk Cows.-The demand was aotive; the market firm a
to day
 consequence of the shortage; price for best \&ingers 6a, ofr oare




 strength in the wheal
productit of Canada a
show a good advance.


This table ehows an advane.... in the ton artiones given of


 Oats have not yet Eila
notior 800 bushels belling

Hay.-Owing to a small supply now hay sold at $\$ 8$ to $\$ 10$
 remain steady,
1730 tot 188.0
Ephr
por
 were meese.- Aovement only moderate ; all solect hold firm at
9c. Hides and Skins.-There is a good demand for hides, and






Montreal Markets.
Export Cattle- Reociltst of export cattile have been none
too plentiful at this market for sometime baik, but within the





 butherra who wanted to stock up had to see wor not yorlow



 domand prices were frmer, rankins in inalue rom 8.20 to to
for ordinary stock ; 86 to $\$ 7$ for medim, and $\$ 8$ to $\$ 10$ each for choioe.
Hides and Skins. - There hae been no ohange of impor-
tance in this market iince our last report. There ise oertion amount of competition stil between
dependent dealers, but it has gradually simmered out until




Live Stock Shipments.


Horse Markets.
 animale, however.
were rather coorsort. Loos foall| the poor cables had

 good rivers,
hea oy dratta, from $\$ 90$ to $\$ 120$ each
The British Markets.





Canadian Live Stock Export. The following are the live stock exports for the woeks
onding Wedineeday, ungust 18th and $25 t h$, as propared by $\mathbf{R}$ Biokerdike, of the Live Stook Exrohange, Montreal


## Chatty Stock Letter from Chicago.


 increaee and prices will doubtloes look hilthto tho puroheorn








record. The hogs are coming to market in yery good quality. Very
Tew graseg hogh have boen markoted this summer.
 native.
 ersey cows and butter at 60 and beetatcak at 12 , P. D. Armour, speaking of the now ariff bini, gajg: "It armers to oeding catile, for it makee it poosible for them to

 dilter boughtat ititi.8.
A current markot report says: "Some 1, 1, 14-1b. Fat branded


 Cuba is beginining to take cattle from Mexico again, the
frst boatiod since the war broke out having gone trom tamfirst boatioa
pico Aug. 14.
The ear's reoeipta of cattio to date are 80,000 loses than last
 iots in this and other
ipe native oatle aro and the generalimpression to to in very strop demand and
ind





 a fow anckling Hereford bunl calves, but it may be dep
apon that they were of extra fine quality and breeding.

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Septembef 1, 1897


THE CASTING AWAY OF MRS. LECKS AND MRS. ALESHINE.




















 herituan iniz





















 a, other, and there may be somebody right there, a missionary
cor all know. wholl have har before you have a chance to and















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 Conem in witili wio






 and mand mid












match of it than we ppt an extry spoontul of tea into his pot, earned by his beloved art. "Good Papa Corot," as THE CHILDREN'S COR


 Mr. Mr. Eadortcon wata muob surprised at these preparations Sonspiraea had beon enteredi into against him, and fell into


















 ginger.jar."
"Menerinly Morning. Corot, the great Conch painter, wass
one of the most disone of the most dis-
tinguished members
of $\begin{aligned} & \text { uhat }\end{aligned}$ the English critics designate the
carbizon School, because most of the
Works of that class were painted at Barbizon, a little village on the borders of the
Forest of Fontainebleau, a favorite resort of those artists.
The French, how: The French, how. this, ${ }^{\text {g }}$ roupof painters ${ }_{\text {as }}$ as hich men which is perhaps a clature, as it was
about that time their influence became so Jean Baptistt Camille Corot was of humble parentage; nally a barber, but marrying a dress-


"EARLYímorning.
her calling as to
eventually adopt it os his own. They were so successful in their joint labors that we may consider
them worthy forerunners of Worth; ;"a dress from corots bersong
royal personages.
The Corots naturally wished their son to succeed them in the lucrative business they had estab-
lishhen, but it was so repugnanto his
aster mishes that
and ater many weary assuse and permission to follow
to five him $\$ 300$ a year
his own inclinations. That very day young Corot purchased a stock of artist's materaiale, ,2nd repairing

$$
\begin{aligned}
& \text { began to paint. } \\
& \text { Ho mo mith }
\end{aligned}
$$

$\mathrm{H}_{\mathrm{He}}$ met with little encouragement at first, the only person who sympanate success being a young
in his genius and ultimater seamstress of the name of Rose in the Corot establishment. It was some years before success crowned his
known his works were eagerly sought after, pickurw healers and collectors besieging his door. One of his best and most widely-known paintings is "Early Morning," the original of which is now in
the Louvre. It is remarkable for the dewy freshthe Lourre. It is remarkable for the devy freen-
ness of the atmosphere, a characteristic of Corots Works which his confreres attempted to imitate in vain. Daubigny referred to this trait of Corot's
when he enviousty remarked, ". He puts nothing on
canvas, and everything is there."
canvas, and everything is there." and generous dis-
Corot possessed a most happy and Coron possessed ant nearly all the thent of his
position. whe spent
Iabors in works of charity, leaving the wealth he he labors in works of charity, leaving the weath hee
inherited from his father intact to his relatives, neverited from his father intact to hiv relad not

earned by his beloved art. "Good Papa Corot," as
be was universally calle, Nived to the age
seventy-nine beloved by ali. The morning of his seventy-nine, beloved by all. The morning of his
death his faithful servant urged him to take some nourishent to osustain his strength, but he gently
shook his head, saying " Papa Corot will breakfast in heaven to-day,", and just before he died he
whispered that beautiful landscapes were filting Whispered that beauniful landscapes
before his eyes " ing." A meet ending to the life of a disting uished
painter and a good man painter and a good man

## Recipes.

Pick the grapes off the stems and mash with a Pick the grapes off the stems and mash with a
potato pounder, allowing pait of cold water to
very quart of grapes before they are washed every puart of grapes before they are washed.
Then add the water and let stand for three days, stirring ache way. Strain through a jelly bag, and
the following day pour off carefully from the sedi
 gallon of juice. Put into large jars loosely corked
to allow it to ferment, and at the end of three weeks (if it has done fermenting) add one quart o whiskey to five gallons of liquid. In three or four
days bottle it, corking tightly. While the wine is days bottle it, corking tighty. While the wine is
fermenting the jars must be kept filled with some of the liquid reserved for the purpose.
tomato salad.
Skin and slice some ripe tomatoes, also one hite onion; lay them on the ice until cola, put

## The Camel and His Associates.

(An Fastern Fable.) That his lair in a neadow near a public road. He had three friends-
wolf, a raven, and a jackal -who attended him, anolf, a raven, and a jackal - who attended him, took in hunting. Now, as some herdsmen were passing along the road one of their camels lagged imself in the presence of the lion, who promised him safety and protection as long as he cared to emain with him.
One day the lion, when out hunting, attacked a arge eleptant han was wable to hunt. soverely wift
its tusks that he
The aven, and the jacka had to do withontoneir usual shat remained of the lion's prey. After several days of famine they held a consultation. They aid to one another What ing camel ? Could we not induce the lion to kill him and feed us with his flesi? dare not mention to the lion, for he has assured dare not mention to the lin, for he has assured protection."
Said the raven, "Let me bring the king round profit to us. Shal
we
ne se not kill him to
satisfy
hunger? But the lion was
 proposa! t I did no tureupon such words in my presence, see
ing you knew that 1 ing you knew that
had given the camel a promise of protec-
tion.
Did you youn hear it said, 'He who
keeps a sacred obli keeps a sacred obe
gation has greater
merit than gre merit than one who
prevents the wanto
pheddin prevents the wanton
sheding of blood
I cannot break faith with the camel." To which the rav-
en replied: ". 1 know anothersaying
which runs thus "One person is a ran som for a family,
family is
arangon for a tribe, a tribe
for all the peoole of
Feg Egypt, and ail the
noople for the king
Now, I will find Now, 1 will find a
way of escape from
this treaty of protec way of escape from
this treaty of protec-
tion in in ucha manner tion in sucha manner
that the king need not give himeseif any
naxivety on the anb-
ject. We shall pro
we ject.
ceed by stratagem."
Accordingly Accordingly, next
day when ail the
three and the camel also were before the lion, the raven spoke as follows: "Oh king, thou
 thou perish, not one of us can survive thee. Where-
fore , elt the king eat me, for this will be according to my desire.",
 to him." the jackal said: "But I have enough to Then the jackal said: "But I have enough to
satisf him. Therefore Iet the king eat me, , ior I
willingly consent thereto, and it will he according to my desire."
But the worf and the raven replied: "Hold your
(thenue! Your flesh is impure and unfit for food!" tongue! Your flesh is ispure and unnt for food your " the king eat me, to satisf $y$ my wish and sincere desire."
 not do, for the doctors asy. fle any one wishes to
kill himself let him aat the flesh of the wolf.' Then the camel thought that if he offered him self for food they would invent some excuse for him,
as thev had done for one another, and he would et off, and at the same time find favor with the ket offt and at the same
lion. So he siand
There is enough in me to feed he king abundantly; my flesh is pleasant to eat, and
free from impurity; Therefore, let the king eat $m$ free from impurity. Therefore, let the king eat me
and feed his servants, for I obediently submit to this." Then the wolf and the raven and the jackal said The camel has spoken what he knows to be the ruth, and exhibited great generosity," And so they fell upon him and tore him in
pieces. And that was what the camel made hy
associating with improper companions.

THE FARMER'S ADVOCATE.
Seftember 1, 189

Mother Goose and Father Gander.


THE QUIET HOUR.


All Souls are Mine.'
In religious work how dependent we are for effective work on the divine worker in the partnership. He worked in you first; He works still in you; and only as He works in you, can He work by you; and if you are to work with any effects upon Fith you, and after you. These souls that are your field are His, not yours; His, as you are His. "Al Souls are Mine" is a grand text for soul-workers, and should be written in letters of gold over every worker's room. And He, Whose the souls are, knows the way to the souls, and has the power to soften and sanctify-not you, but He. In this lies the hopefulness of your work. He who is our co worker is strdis tis plesure to use you and me to help the souls around us in their daily struggle upwards towards the light.

## Hopp me to day To bear all patiently, To roet all trustigly To wait il hopefuly. <br> However rong ABsured that as And rest and wait He plans the wal

With this stimulating hope let us work on, but always in profound dependence, knowing ourselve to be only reeds through which flows the river of the water of life
"Even so send I you." Hear that word ringing down the centuries. Sorrow and trial, suffering not simply to bind up the broken-hearted, but to find the broken-hearted. Human sympathy is the medium through which the Divine works. Go binds up broken hearts with human hands.
Think what the world was with one Saviour in it. Think what each city would be to-day with a thousand Saviours in it. Think what One has done be if all who bear the Christian name, in palace and hovel, had His spirit and were doing His work.
There is so much to be done, and we feel so helpless and incapable. Shall we, give up the struggle and own ourselves defeated? Surely not. This is the situation in whichever gives us work which we cannot do, if we look to Him for strength and wisdom. If we try to work alone of course we shall fail. Never give up, or envy those who seem to
have an easier time of it. Your work for God may only be the teaching of littlle children - only little children! Does not the Master say, "Take heed that ye despise not on the stones were made ready at a distance. Each workman shaped his stones according to the command of the master-builder. Unless he gave the orderdreds of workmen, should form, when brought together, one harmonious whole. Is it easier to build the spiritual temple When the great Master-builder gives you smal
stones to prepare for their special niche in the stones to prepare for their special niche in the heareathy you, or sigh for greater work. The task set you is always the greatest. If you neglect that
for which you consider greater, will He accept the service which he has not asked of you.

With aching hands isnd bleeding feet,
We dig and haeap, lay stone on stone;
We bear the burden and the heat
f the long a aj, an tivh 'twere do
Not till the houra of light return,
All we have built do we discern.

UNCLE TOM'S DEPARTMENT.
My dear Nephews and Nieces, -
Another month has been measured off upon Time's dial, and I joyfully resume the pleasure of a chat with my boys and girls. And what more con-
genial accompaniments could be desired than the fast-falling twilight and the mingled perfume of mignonette, sweet peas and phlox so sweetly mignonette, sweet peas and phed breeze!
wafted to us on the soft August bin The golden wealth of harvest is now safely
stored, and the busy farmer turns up the willing earth again to draw from sun and air new food for
next year's growth. The freshly upturned sod, next year's growth. The freshly upturned sod,
the bright young aftermath of the meadow, and
the proudly waving cornfields form a charming picture. And the orchards-oh! the orchards-the smail boys delightr. Not untin now has he waike
to sample their fruit. He knows just where the
sun is first wont to kiss the apples into rosy blushes, on what particular tree the most luscious
plums hide, and where the mellowest pears and plums hide, and where thting golden balls. Oh,
peaches hang their temp
happy smail boy, at once the trouble and delight of happy small boy, at once the trouble and delight of
every household fortunate enough to possess so great a treasure. Thoroughly do I sympathize with you
in your sports and petty troubles, for have not I travelled the selfsame path? Does one readily forget life's happiest hours?
my bright-eyed troop - back with fresh vigor and new determination to improve as far as possible
the fruitful present, remembering thatthe fruitful present, remembering that

I am very pleased with the result of our "Gem" competition. Quite a number are contributing, and
the work on the whole is excellent, displaying very the work on the whole is excellent, displaying very good that it will be a difficult matter among so many good ones to choose the best collections. The mere looking up and writing out the pretty
selections must necessarily benefit the collectors, but I would recommend you not to allow your work to stop there. Try and commit to memory
from time to time a few of those fair thought ossoms, fower: that irue florist, learn all you can of each flower; that is, the work from which it is author. In this way you will easily obtain much holesome literature.
The press of to-day - that very important factor in the education of the masses - in a general way mind. Sensational narratives of crime and faithlessness, too often real, but frequently fictitious,
elaborated by clever writers (a pity their talent elaborated by clever writers (a pity their talent
should be so abused!) to attract the eye and claim the attention, fill a large portion of many of the papers heedlessily brought into our homes, till, as Pope says, the frequent, sight of vice lessens our contaminate the mind and impair the intellect. Fortunately, there are also clean, pure-toned journals, whose tendency is rather to elevate than
to degrade, which may be safely admitted to any
The mind that dwells only on noble thoughts will unconsciously assimilate nobleness, while its less worthy sentiments will perish for want of
nurture.
Ever your loving- UncLe Tom.

Puzzles.

My 9 is a vowel
My whole ba place in Canada.
Muriel E. Day
2-Word Square.
1st. Belongs to an office
18t.
2ntid
3nd.
4th.
d. Partsor. quadruped.
h. Pore of the signs of the zodiac.

5th. To makk tuneful.
6the Smaller degree. Murikl E. Day
My
My
$\mathrm{My}, 7,7,8,9$ pertains to water
is an organ.
the name of a city in England. PR.
When Iam wholer a am machine: Doublo ourtalled and


1. A letter.
2. Aaver or tratum.
3. Goders of love and beauty.
4. Song in wo parts. T. GR
5. A letter.
6. The inner part of anything.

That which eats or corrodes
To make reparation
Income derived from lands.
$\underset{\text { 7-Charaine. }}{7}$


Answers to August and Puzzles.

## 1. -To-get-her (together).

3.-Romulus.
4.- Partridze.
rand
$\begin{array}{llll}\mathbf{P} & \mathbf{L} & \mathbf{A} & \mathrm{Y} \\ \mathrm{L} & \mathrm{A} & \mathrm{V} & \mathrm{A}\end{array}$
LA A
Y $\boldsymbol{A} \mathbf{W}$ R $\mathbf{E} \mid \mathbf{L}$ E $\mathrm{N}^{\mathbf{T}}$ STATE




Coubinly Chat.
M. F. D.-"Kit" is "Kit"; can't tell you more ; 'twas hen ing. Margareta.". You need no mastistance. if it continues to prove interest


 will have an equal chanoe, which they could not have othe Jis. S. C.-Might apply "Nesta's" answer to you too, old
boy. I miss you.

Be Womanly at All Hazards.
Whatever else you may aspire to in this world,
let the greatest ambition resolve itself into the firm delermination to be womanly at all hazards No matter if the duties of hife call you forth to de battie side no sorget that the femininity that is so charming in the home circle is at just as high premium in business life.
Be strong-minded in the truest sense of the
word, hut do not let your mentality run away with those little graces and winning ways that endear woman to all mankind. You can be just as suc
cessful in any undertaking by working under the cessiuer of refinement and gentleness as you can if you discard these gracious elements and adopt a
sort of stony antagonism that raises at once a sort of stony antagonism that raise.
barrier between you and all the world.
Perhaps the working woman argues that she means to win her way on merit rather tha manners. Very well said, my sister, but just as
soon as the cloak of womanliness is thrown aside do not be surprised if you receive the sort of treat ment men deal out one to the other. If you adop masculine ways expect dealings womanly women the world over, and in order to be enshrined in that corner of thei hearts where mother, wife and sisters are hel sacred, the deportment must be at all times tinge
with gentleness and sweetness, commingled with dignity that is far more powerful than the assump tion of a wilfully aggressive demeanor

Resting at Home.
It is possible for any woman to practice the rest cure in her own home. For example, one physician Writes: "I insist that my wife, a person ofergy every day, often needlessly, shall remain in her room at least until nine o'clock every morning. At
first she found this a trial, and fancied the house hold could not be started unless she was about, bu within a week things went on as sming if she came down to break fast and undertook to manage things The children are old enough to eat their breakfast and go to school without her supervision, or, i they need attention, it is an easy thing to run col comes up to take the orders for the morning, and it often happens that if Mrs. is not going out she
does not leave her room until she comes down to luncheon. This is an experiment, but the result is that she has gained over twenty pounds, pounds that restore her to her normal weight. Seven
eighths of the slender women of the world lose weight by over-activity; they are too active righ in their own hones or over-exercised out of doors, The old notion of getting up early was not made for this class should be 'lie abed as long as you can, and when you do get up take things as easily The only question is can women make up their
minds to do this? Probably not all of them can arrange a morning rest, but they might an after noon one. The great point is to plan for it. Th
person who does not know how to lay plans and to person who does not know how to lay plans and to
execate her work quickly never has time to rest
and here we believe the chief difficulty lies.

THE FARMER'S ADVOCATE

The Montreal Exhibition inued from Pa
HORSES. The horse exhibit was, on the whole, not of
 ghbred were only fow in number but quite good in
charactor. $A$ s at
at ait years show
 Ed ward
are capial animatis of goo , uneful gize. The
latter was the favorite of many, but not with atter was the favorite of many, but not witc
the judge, as he hpaced him nd. He is a hand
me, roundribbed brown with oapital gtyl

 akes award. The 3rd exhibitor was John合 number of filly olasses without op
 lass espeoially was well contested, especially gured prominently in the younger breeding ontestod. The best horse of the eloass wae



 well-bred horsess The bost, mane whisitor of in an exher of prizo winners. None of the see.
anumber or
tions wore large but nearly all contained
 In tho Saddle and Hunter olassos the
 sections as was also Jas Mc Mey, Jas Mhnston, Como, M. Hunter.



HRAVY DRaft.
There is not much to be gaid about this
class. Many prizes offered were not oompoted
for, and a number were taken by thin indittor oris. and a number were taken by thin, indiffer
ont animals, although there were a fow good ent animala, although there were a few good
horgios probenth the tita nd 2nd prize brood
mares, zhown by Thos. Irving. North George

clydesdaliks
were shown by three exhbitors, Mossr. Robt,
Ness,
Howick; MoGerrige
Bros., Ormstown


 ence Again, MoGerrikle Bros. also havererigh
 Inis, and stallion two year
of nice Clyde patiern.
nites and Hackneys wer


 Boucnerville, and the Hackney, Saxinghan
Firewayl and speimen of the breed
shown by Hermitage Farm, st. John, could shown by Hermitage Farm, St. John, could
guard his own laurels in good competition.
CANADIAN HOREES
are a feature peoculiar to Montreal show up, about fitteen hands high, moderately olea
legred, and of very ordinary action. Most o legged, and of very ordinary action. Most o and Henri Deland, Lachine, who showed
most of the section other oxhbitor wwe
S. Lecoavaber. St. Martin, who who lst on age stallion, Jer.j. Anderrson, Whominionvin ane, zend
in same section, and A. Beautus, St. Lauret, who won acoaple of premiums. this show. Robt. Ness showed a beatitu
stallion, also mare in foal, winning lat


 Fi, J. F. McKAY,
PAREHILE, ONT PAREHILL, onT
Poland. Chinawine
Choice of of suck
ling pige and sows ling pigs and sows fu
for servied
turkeys, B. Pron . Rocke

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 emale representatives of the colebrated Mine
trathallan Golden Drop and Mysie familio


 ainicmom


Hawthorn Herd
 WM. GRAINGER \& SON, Londesboro, Ont ADVERTISE IN THE ADVOCATE We recently took the opportunity to visit
the works of the John Watson Manufacturing
Co. (limited Co. (Iimited, Ay, Ont., and found a large num.
ber or men employed on fall machinery, espe-
 sood machine, that should find ready marke
among those who need a goo machine to put In their corn. Their root pulpers, graingrind
ers and porneumatio feod elorator, wood saws
 ood pattern and s.
should be written for.
A. A. C. Hallman, New Dundee, Ont., writes :-
Sale in Hosteins have beon good, and in $\mathbf{x}$ am Worthg unsurpassed. MY hord of Hostains
are quite up to their usual high standard are quite ap to to their usual high standard
have just doeided to make an oxhibit vite my nut numerous frionds to again meet me
there. I will rest on laurels won for a yea
the there. I will reat on laurels won for a yea
onothoteing and try to bring ny Tam
worthe bef worths before the pablic in the sam
In Rhal exhibit my old stook boar
174, which has never yet contested."
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The announcement in our advertising col umns of the dispersion sale on Oct. 28th of the
entire herd of high-class Ayrshive cattle be
lo longing to $M$ r. R. Robertson, Compton, Quee
wil
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peouliar interest
to
Alrhire
 ed the position of director of experimenta
farms of Marititime Provinees the Whol her
will be sold without reserve. It






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| best |

 frat-olas8 octver, showing graet promise




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at public auction in many jears.





 show record he won the silver medal for two
geceegive years at Toronto. He has also
porven himeirs worthy fire. The four bull
calves in the herd are by Mas's Roseberry,

 ais. Irma (imported), now then years ond, has
roven hree calves on the farm, and hame roven heraif adairy producer. She came
ntom. Batler's hands with areord of 7 Ibibs.
nilk per day, and 3 lbs. butter, and Mr. Butler



 Rose of Sunyspring 907, 万, May' Moseberry
and out of Lidy Lake 3ra, posesesing a good
constitution.
 boar Prince Alexander sh, now ive years od
he has boen shown all his life and always
winning first honore, which speaks for his winning firt honore, which gpeaks for his
quality, poseesing great depph and thickness
of substance. They have also a very fine hor

 monthg old and weighing over 700 poun
His stock are coming in ine form. Two ex
coptionally choce yearling owa are deovrin


 are shown in oxcedy
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In Duroc Jerseys th



















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COO1z 111

 KAINS BROS. BTRDN Mistion


THE FARMER'S ADVOCATE


## NOTICES.

The John Watson Manufacturing Company,
Limited, of Alr Ont., mate an an anouncement
else where in this issue of interest to our read.

 ADVOCATE was plesed to find a large number
of men busill at work on 耳oods for the fall
trade now opening, and which will be briker Messrs. Osler, Hammond \& Nanton, agents
for the Cill
 no the inside of which ir a map of the Terri
ories, showing the different linos of railma
onte at Winnipeg it gives all the important stat
tions along inh line to rotitish Columbia. Out-
ine in red is the different districts in whic
 sent free to any party on receipt of address.
Send oro one.
We are in receipt of list of Manitoba farm



 listricts in which many of these parcels,
land are situatod the price is very reasonable
and terms of sale should be acepable
 for sale and the price and and
are satisfactory.
Any parties desiring lits
lits ant
information wili at once be furnished with it
by calling personally at above address or bs send ang letter requasting information.
FORESTRY IN ONTARIo. Tho Burean of Forestry of Ontario has just
issued its annual report, which presents aclear view of existing conditions in that Provine
as regards the forests and the timber supply,
as well as much practical information for

 the question of replanting the waste land
with timber. It point out that the problem
has ent red up on on new phase since experi. has eila red
ence and observation have conclusively proved
that the pine forests which are oo importan
in a ource of our provinial wealth will repro
duce thememeves in oprpetuity, provided only
that the ravages of frie can be prevented The impression which has so long and so wide
Is prevailed that the pine when cleared a way
the will necessarily be succeeded by woods of a
inferior character has beenn proved incorrect
This onls occurs when fire destroys the youn trees and the seeds in the ground suc
being the case, there is no reason why wit being the case, there is no reason why with
reasonable preautions our pine supply houl
not remain sufficient for all demands un on it
 The importance of forestry to the farmers is
urge and finures are given, conpiled from
the st tistise of the Bureu of industries, showing the extent to which deforestation ha
sheon cant in or the oldor ettled
districts. The results, owing to the wort
dit





 for commercial purposes 13 continuany on th
increase so that the farmer who preserves or
plants timber judicioully adds materiall yo
pro source of revenue.
The reperten comprises papers on the study of
隹 carried out to some extent on Arbor
should be more thoroughl in thilled int ochi



FAIRVIEW STOCK FARM. Ayrshire Cattle and Berkshire Pigs. Traveller of Parkhill at the head of herd,
while my herd is descended from cows pur
chased type and are of the choicest, milking sern
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trated, with may
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amber, hence $I$ can usually oifer momething BULL, NEARLY 2 YEARS OLD, SPLENDID BULL CALF, 7 MOS.OLD 1 EXTRA BULL CALF, 3 MOS. OLD. MRS. E. M. JONES,


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THE FARMER'S ADVOCATE
September 1, 1807 W. G. Pettit \& Sos, of Freeman, Ont., write
sto ohange their ad., ard report the sale of


 he highest price w.
paid by Mr. J. T. Hobbs.
It is reported that Sir Geo. Turnor, who
rooentyy visited Great Britain. reoommeds
that cattle breeders and owners in Australia hat cattle breeders and owners in instralia ngland. He aserts as as regult of his on
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sucha trade were most tancouraging
The 39th annual report of the State Horti-

 y we and well indexed, and oontains much mal
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and

 Mr. W. V. Edwarde, Souris, Man., purchased
from Neil rom Neil Smith, Brampton, Ont., the six
registored Jorreg Cows and heifers exibitited
him at the Winnipeg Industrial, where




 Minister of Agriculture, Prof. Saunders,
Dirioctor of Dominon Experimental Farms
Docompanied Lord Kelvinand a party or about

 apperimental stations at Brandon, Indiai
Head, and Agasiz, but Prof. Sand ars ar
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 which the farms are looated. A better guide
than trof Saunder it would have been difm.
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ii annua tour of the experimental stations
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The FARMER ADVOATE received a call a
ew days ago from Mr. Peter Maofarlane, nspector of Cold Storake for creamerie


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truction, several complaints haviog been stanction, several complaints haviog been
reoeried, In bome instaneos he has foun
refrigerator buildings so imperfectly con



 Otario dairymen are
regularly every week.
DISPERSION SALE OF THE SYDENHAM
ARM ARSHRES. The executors of the estate of the late
Thomas Guy of oshawa. Ont., announce in




 Exhibitions, a record probably never equalle
by any other herd. Twice the herd prize wa
Won at the Montreal Exhibition and evere
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 honored the the award of the Dominion gol
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 their herds by th
their own prices.

HOME COMFORT VICTORIES. FOUR MEDMLS-3 Gold and 1 SIIver, world's Centennial HIGHEST AWARDS-Nebraska Agricultural Fair, 1887. RD-Chattanoochie Valley Exposillon, Colum
RI, Ga., 1888 .
AWARD-Chattahoochio Valley Exposilon,
bus, Ga., 1888.
HIGHEST AWARS-St. Louis Agricultural and GOLD MEDALS and 6 DIPLOMAS-World's Colum biain exposition, Chicago. 1893 . MGEST AWARDS-W
don, Canada, 1893. SIX GOLD MEDALS and Diplomas-Cal. Midwinter Fair '99. SILLER MEDAL-Industrial Exposition, Toronto, Canada, 1895.
 Made of open hearth, eold rolled steel--pre.
iron - will luata 1 life-time with ordinary care.

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