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## EDITORIAL.

Mr. L. G. Jarvis has been appointed in charge of the new poultry
cultural College.
Secretary J. W. Wheaton, of the Western On tario Dairymen's Association, announces that the January listh, 10th and 17th.
Joseph E. Stubbs, LL. D., President of the State University of Nevada, has been made also Director of the Nevada Agricultural
Station, vice Stephen A. Jones, resigned.

Major H. E. Alvord has accepted the presidency the Oklahoma Agricultural and Mechanical Co lege, Stillwater, Oklahoma. He has also been
offered the presidency of his Alma Mater, Nor wich University, Vermont.

Mr. E. G. Lodeman, instructor in horticulture t Cornell University, has sailed for Europe, to tudy the diseases of grapes in France and Italy, and the methods of treating these diseases the by spraying and otherwise. Hieyards.
Prof. Collier, in Geneva (N. Y.) Experiment Station report:-"In no other way can the corn crop be so economically harvested, and both grain and stalks be so well prepared, almost regaritess of the vicissitudes of weather, as promptly in silo, at its maximum food value, prompty until consumed, it requires no further care and expense.

The Ontario Good Roads Association, of which Mr. Andrew Pattullo, of Woodstock, is President, Mr. Andrew Pattullo, of Woodstock, is Presion in Toronto some time in February next. Through Toronto some time in February next. bulletins were distributed during the past season. The work of educating the public on the subject of improved highways will be energetically pushed during the coming season.

Do not feed the cows, that are giving milk, straw and allow idle horses to eat all the hay. It is also poor economy to feed young cattle and horses hay at the beginning of winter and have to feed dry is relished in the early winter, while nothing but shear hunger will induce stock to eat it in the spring season. When one has a supply of both clover and timothy hay, the former will do much bet er service to all kinds of stock in the spring months

A plow that will not scour is often the cause of many bad thoughts, and sometimes bad words, This can easily be avoided, if the more of. A plow good one and properly taken care of. A plow when the team is stopped, but hauled back, rubbed clean with a wisp of grass, and turned mold-board down, so that rain or dew cannot lodge upon it. As soon as ploughing is over, it should be placed under cover, and all the bright parts given a coating of grease or oil, to prevent rusting, when it will remain bright and reas should be made before definite time. All repairs should be made before forgotte
needed.

By this time all the food for the coming winte is housed or put in safe keeping, except, possibly some of the roots, which win in this month. When this is all done, a farmer gen erally feels satisfied that his stock will fare well till grass comes next spring. That wime danger of a shortage, caused, perhaps, by waste in feed ing, or the waste may come from cold and draughty stabling, which will demand a more liberal supply ff food to keep the stock from failing. There is a easy and practicable way out of this difficulty. Tarred felting or building paper can be bought very cheaply, and the amount of tacks and lath to fasten it to a wall will not cost much.
in two rainy days, can line up a large building. The effect will far exceed your expectations. The effect will far exceed the siding and lining: but this is a troublesome method, and has the effect of harboring mice and rats. Tar paper will last for years, and its tarry nor is wholesome. The writer recommend

## Our Illustration.

We take pleasure in bringing before the attention of our readers, as a first page inustration ind this issue, an excellent portraice, "Touchstone," the Marquis of Westminster, in 1831. He was a brown horse by Camel, out of Banter by Master Henry, her dam Boadicia by Alexander, out of Brunette by Amaranthus - Mayfly, by Match'em-Ancaster Starling. Not only was he a handsome horse of typical conformation, very "breedy" in appearance, but a race horse list of his The records of his day give the following list of his winnings on the their value in specie:-In Plates $£ 50$; in 1834, $£ 2,675$; in 1835, $£ 1,260$; in 1836, £1,040; in 1837. £450. Total, £5,475.
Between 1838 and 1843 he stood at Moor Park and Eaton, his service fee being 40 guineas per mare.
The following were some of the principal winners got by Touchstone :-Auckland, Ameer, Auth, Blue Bonnet (the Derby), Celia, Dil-bar Fanny Eden, Gaiety, Jack, Lady Adela, Orlando Phryne, and Rosalind
His stock first came out in 1841, as olds, when they won amongst them, in public money, $£ 300$; in 1842, $£ 2,530$, and in 1843, $220,+54$. Our po
graving.

Wheat as a Stock Food.
In another column we give space to a letter from a reader, "F. J. S.," on the above topic. There has never been any doubt as to the value of wheat as animal food; but not until withil induce even the consideration of putting the feeding of it into prac tice. There have always been, however, hereus there an exhibitor of possible growth at a give obtaining the greatest posslaving wheat out of the age wh. Considerable quantities of wheat have bee fed by men whom we deem prudent, to all kinds of stock, but especially to horses and sheep. Such practice would not have been indulged in for any length of time had it not been paying, but it did pay, and some of the persons who know its value to-day are not lamenting the low price of wheat (from a selfish stand for the purpose of inducing show that its value forcognized long ago by live stock men of high standing.
The present market value of wheat, as compared with other cereals, has caused very many to place that grain on their bill of fare, and, according to the results of experiments conducted at almost every experiment station on the continent, and also by private individuals, confirms the old idea that wheat, as a stock food, has a value more than its market price and beef producing food of the Ween ond as far east as it could be obtained at a reasonable figure ; but while corn will produce about fourteen pounds of pork for one bushel fed, wheat has hown its ability to increase a growing pig's carcass bout seventeen pounds for the same quantity fed. For mature stock in the process of finishing for the block, corn is said to make a better showing, but, where there is a demand for bone and muscle as well as fat, wheat takes the lead in increasing live weight. The great objection to pure corn feeding is that it increased with flesh and frame, than the ratio, as compared withent will warrant; hence the estineness of corn-fed animals to disease and stirility Wheat has no such bad effect, as the very element hecessary to build up muscle, etc., predominat sufficiently to cause the most vigorous development The following table shows the digestive componen in 100 pounds of the grains with which anadia their nutritive ratio


According to numerous experiments, a ratio with a nutritive ratio of about 1.7 gives the bes results in darying, as a grain ration a mixture wheat and oats to good advantage
ratio will then he about perfect.

In a carefully prepared bulletin on "Whar as a food for growing and fattening animals," by the U. S. Department of Agriculture, the
statement is given regarding its analysis
"Wheat contains practically the same
rotein or muscle-forming element as oats, and both protein or muscle-forming element as oats, and both
wheat and oats contain 30 per cent. more protein han corn, On the other hand, wheat only has about ne-half as much fatty matter as corn or oats. In ween corn and oats. Protein-that is, the albumeen corn and asts.
minoid constituents of grain-goes to build up the
albuminoid tissue of the animal body, of which the buminoid tissue of the aminent part; but it may muscles are the most prominent part ; but it may body comes, therefore, both from the fat and proein of the food which is eaten. The carbo-hy present
ustain the heat of the body, and must be ustain the heat of the body, and must be present
in sufficient quantity, or the more valuable fat Which has already been assimilated will be used for this purpose. Young growing animals require more ng animals, in order to supply material for building p the muscles, tendons ap tructures."
It is the tendency of the age to demand pork and beef considerably before the mature stage has been reached; therefore, the wisk beef. In the grain the production for milk cows, wheat has been found to form a valuable adjunct, as the composition of the valuable part of milk is largely fat and albuminoid in its nature.
While corn is receiving our attention as compared with wheat, we do not wish to leave our Ontario coarse grass, can well be fed in addition to at 35 cents and less, can wen be frice of 40 odd cents per bushel, puts it out of reach as compared with wheat at present quotations. In certain cases, peas, too, could well be sold to buy wheat for feed ing at the present market values, though the time and labor involved would need to be carefully reckoned. Oats have always a place on every stock farm, but with the present price of wheal, a com bination of them alone. -

> either of them alone For horse feedin

For horse feeding, wheat has a high value, as
has been found by the experience of many in the has been found by the experience of many in the
last six months. Some claim to have had good results from feeding it whole and dry, while other
advise boiling or soaking it, to get all there is in it, advise boiling or soaking it, to get aln there is in it There is one thing certain, that when the excremen
shows perfect grains, the mill-stones or a few hours in water would greatly improve its conditicn for
feeding. We notice "F. J. S.," in his article on feeding. We notice "' $F$. J. S.," in his article on
" 75 cents for wheat," advocates grinding it fine for horses. While that may be done with advantage
when fed mixed with moistened cut feed, or boiled when fed mixed with moistened cut feed, or boiled
or pulped roots, we think it would be a much better or pulped roots, we think it woulh oats or alone, as
plan to have it rolled along with oat plan such a case it may be fed to good advantage with any other food, and if fed alone no evil result could follow, except given in too large quantities.
When finely ground, horses object to its sticky nature, as it forms a pasty mess in the mouth, and is also inhaled, causing the animal to blow and cough a great deal of it out of the manger, and
everyone who comes near ; while rolled wheat is everyone who comes near; while rolled wheat is
relished by all stock, and even should some of it pass the mouth unmasticated, it is in good form to
ne acted upon by the juices of the stomach and inhe acted upon by the juices of the
testines to be perfectly digested.
testines ho feeding, grinding or rolling seems to be very satisfactory to those who have given them we would say, get it rolled, as then it will be relished, and the waste caused by blowing it about
will be very little. Our preference is for a few hours' soaking. For cattle feeding, very fine grinding is not so
dvantageous. Our best feeders seldom feed one sort of grain alone, or without being mixed with coarse fodder. There is a great deal in furnishing
animals with a palatable ration, and this is most readily secured with a mixture. For slopping milch cows, finely ground wheat gives good satisfaction.
referred. referred.
For sheep feeding, wheat should be coarsely
ground or rolled, and mixed with whole oats. A Western sheep raiser who recently called on us, stated that his plan was to allow his fattening
lambs or sheep to help themselves to whole wheat lambs or sheep to help themselves to whole whest
or wheat screenings, from a trough arranged to just allow a very slow stream to fall before the sheep as
they partook of it. This gentleman is perfectly they partook of it. This gentleman is perfectly
satisfied with his plan. Another instance is given
hy a Shropshire breeder, of our own Province, by a Shropshire breeder, of our own province,
whose lamb discovered a leak from the granary,
where he made regular quiet visits, and ate the slow where he made regular quiet visits, and was one of
stream of wheat as it fell. The result was
the most thrifty and rapid-growing lambs he ever owned.
There are precautions to be observed when one is commencing to feed wheat. It is a well-known
fiat that when full-fed horses are changed from
old to new oats. they are liable to attacks of indivevemewas $2=22^{2}=$

## Holsterns

 were out in strong force here, as they have been atall the leading fairs this year. Among all the leading fairs this year. Among the exhibitor
were McDuffie \& Butters, Stanstead, Que. $\mathbf{A}$. $G$. Rice, Currie's; Fletcher Bros., Oxford, Mills, and Giiroy, Glen Buell. There was, perhaps, more nodg-
the nsual amount of dissatisfaction with the judg ing in this class, but we have no doubt the judges acted conscientionsly. The trouble is in the diffi-
culty of getting men as judges who have had culty of getting men as judges who have had
experience with the breed, and it shows the necesexperience with the breed, and it shows the neces-
sity of having expert judges who know the peculiarities of the breed they are called to pass reversed from the Toronto awards, Mr. Rice's bull being here placed first, McDuffis \& Butters' second,
and Mr. Fletcher's third. The same experience came to exhibitors in the section for aged cows, where
the sensational cow Eunice owned by Mr. Rice, the sensational cow frist prize and sweepstakes at
and which won
Toronto, was here shut off the prize list, to the and which won irst prize the prize list, to the
Toronto, was here shut of the
amazement of all the exhibitors and many spectaamazement of all the exhibiters and many specta-
tors If a cow is bo judged by her capacity for work, and the indications, of anreat machine for qualities in a high degree, and her record of actual
work, as well as prize-winning, stands unsurpassed work, as well as prize-winning, stands unsurpassed
by many cows in America. McDunfte 8 Butters by many cows in America, MoD forste and second
wrere fortuante in wining both first and
prizes in this section with imp. Trintje and Evertje, prizes in this section with imp. Trintje and Evertie,
two very useful-looking cows, but the owners claim two very useful-coking cows, buated owr. Fletcher
that their best cow was not placed. Mr got third prize on a very good cow. There was a
very strong ring of three year-old cows and Mr .
ver Girliroy secured irrst place with a business cow of
rather small size, but with a nicely-balanced and well-shaped under, with teats about perfectly
place. In the competition for the herd prize, Mr. placed. In the competition for the herd prize, Mr. Rice received at the hands of the judges some com-
pensation for having degraded his dehorned cow, pensation for having degraded his dehorned cow,
by giving him the first prize in a very ken contest,
but they culd not well do otherwise with a herd to but they could not well doo otherwise with a herd to which they had given three red tickets- first on

buill first on two-year-old heifer and yearling heifer and the detorned cow with her previous record |  |
| :--- |
| Butters had in the second prize herda a grand lot of | matured cows, which had proved themselves producers and workers, and for uniformity of exce-

lence was very hard to get over. This frm also won
the diploma for best female with their fine cow, imp. the diplo
guernseys were exhibited by Mr. J. N. Greenshields, Danville, Queiland, Culloden, who won second prize with his three-year-old brul, May Rosebery. proper place,
shields' bull here got back to his
 ite imp. Adventurer, at Toronto, where he seemed to have been overiooked. This is certainly a very appearance of royal breeding, and was here awarded appearance his class, and the sweepstakes as best
first prize in age. This herd also secured first and
bull, any and bull, any age. This herd also secured first and
second awards for cows, and the herd prize. Mcsecond awards for cows, for bull calt, for
Nish Bros. scored frst for ber ber
old heifer, yearling heifer and heifer calf.

JERSEYS
were represented by only one herd, that of Mr. WW
A. Reburn, of St. Anness, Que., except two animals A. Reburn, of St. Annes, Que., except two animale
shown by J. E. Bennett, Carleton Place, who re
 heifer, Maud of Acklan. Mr. Reburn showed
strong herd in fine condition. His cattle are large strong herd ronust, and are richly bred, deep in
strong and robl
Victor Hugo and St. Lambert blood, and many of them very closely in-and-in-bred, yet they have
every appearance of having strong constitutions every appearance of having strong constitutions. ing. is that. of the prize which counts in her pedigree
Vic of St. Anes no less than twelve crosses of the result of breeding toget full brother and sister for four penerations, yet she is large for her
age, well developed in every respect, and has every age, well developed in every respect,
appearance of a strong and vitution.
ape front grand specimen of the breed, with good size, deep barrel, neat head and horns, great milk veins, an were well-grown, and show strong family character
and much promise of usefulness. beef breeds weere Messrs. J. I. Hobson, Mossboro, and represented, but in some classes only one or two
axhibitors were in the ring. Yet the quality in all
ent exhibitors were in
classes was good.
were shown by W. C. Edwards \& Co., of Rockland,
and Jiumes Remie, of Wick, whose white yearling




sor hair and two-year-old bull, also bra
by Mr. Duthie, is Knight of Lancaster, which won
first prize in his class. The massive and matronly
The ve-year-old roan cow, Bessie of Rockland, is wearing well, and would hold her own in hearling heifer LLady Fame, Fame
company. The fine yen
bred by
 where she won second prize as a heifer crift, has
gone on well, and is a long, level heifer, of gone on wend, good promise. Mr. Edwards' cattle
quality, and ared for exhib'tion, but they were in fine shape and looked like going on
have no doubt they will.
herefords
were 1 epresented by the two strong herds which met at Toronto- those of FA. Fleming, Weston, and H. D. Smith, Compton, Que. The prizes were
nearly equally divided, the Toronto awards being reversed in one or two cases. Mr. Fleming's sweepstakes bull, Commodore, and Mr. Smiths irst prize cow, Lady Tushinghaunger animals in both herds are well up to the standard of first-class. Mr. Fleming captured first and second on aged bulls; second fol, second for bull calf: for cow, third prize : two-year old heifer, second prize; yearling heifer, first and
third; heifer calf, second and third; herd, first prize; Sold medal and diploma for best bull any age. Mr calf, first; cow, firstand second; ; two--year-old heifer, first; yearling
herd, second.
aslloways. Galloways were shown by Jas. Neilson and C. H.
McNish, both of Lyn, Ont.a and the prizes were
nearly equally divided between them, Mr. Neilson nearly equally divided
Dr. Craik, of Montreal, had a walk-over in this Dr. Craik, of Montreat, had a watch strong com-
clasitith his sine herd,
petion tion at mot soronto and gained a large share of the petition atium.
pres.
devons were shown by Messrs. Rudd, of Eden Mills, Ont., and the p
Toronto.
grade cattle.
The managers of the Ottawa Fair have set a good
xample by making two classes for grade cattleexampo by making cant catle other for dairy grades. This we deem a great improvement, as they are
entirely distinct classes of cattle, and cannot be entirely distinct classes ony degree of satisfaction,
judged together with and der
Qither judged together wes on the exhibitors. In the class
either to te judges
fr beefing prades, some grand cows and heifers for beefing grades, some grand cows and heifers
were shown by James Rennie, of Wick. These animals would stand wethorns shown at the leading the pure- are a splendid illustration of the potency
fairs, and are buls in grading up the cattle of the of pure-bred buls in grading up the cattile or some
country. J. J. Clarke, ottawa, also showed some very useful animals in this class. The dairy grades
made a very interesting class. They were mainly Ayrshire grades, and some of the cows shown had every appearance of being pure-bred. Mr. Clarke,
of Ottawa, showed a cow in this class that was, perhaps, as good a type of a dairy cow as anything in the show of any breed. A three-year-old cow,
shown by J. R. Campbell, Vernon, was also a very shown by J. R. Campbell,
fine model of a dairy cow.

SHEEP.
The different breeds of sheep were well repre ented by selections from the well-known focks
the following breeders :-Cotswolds, S. Coxworth Claremont; Leicesters, John Kelly, Shakespeare Lincolns, Gibson \& Walker, Iderton; Shropshires,
R. Davies, Toronto, and J. N. Greenshields, Dan ville, Que.; ; Oxfords. W. B. Cockburn, Aberfoyle; Dorset Horns, J. A. McGillivray, Uxbridge; Merinos, Smith Bros., Fairfield Plains. It is neediess to say and the only thing required to make the show more interesting was more competition.

SWINE.
There was a large display of hogs, and a good
hare of competition in nearly all the classes. Mr . Share of competititon as single judge in all clas. Nres Berkshires were shown by George Green, Fairview;
S. Coxworth, Claremont, and JJ. E. Gilroy, Gilen Buell. The best prizes, were divided between the
frst-named exhibiors. Mr. Green secured the herd prize. Mr. Coxworth won first prize with his aged
boar, Highclere Prince. Both these gentlemen how splendid specimens of the breed. York J. N. Greenshields, Q. C.; McNish Bros., Lyn, and
others. There were a number of very fine sows show. The boars were not as good as the sows.
It has been remarked that there is a lack of uniformity of type in this class as shown at the fairs,
which it should be the aim of breeders to correct. Judges find it difficult to make awards sat isfactorily,
to themsel ves or exhibitors, where there is such diversity of type and style, Mre Featherston had
the Sinfork class to himiself, with the exception ot
Poland.Chinas were represted one boar. Poland-chinas were represented by
animals of very high nerit, from the herds of
Messrs. Smith, of Fairfiel Plains, and Jones Bros,, of Mount Ell, s. Some very fine Chester Whites
and Tamworths were shown Wy Wm. Butler

## Chatty Stock Letter from the States. <br> from our chicago correspondeyt.

Best corn-fed beef steers, $\$ 8.15 ;$ best Montana
$\$$ rassers,
$\$ 4.90 ;$ best heavy hogis $\$ 5.50 ;$ hest light hogs, $\$ 5.25$; best sheep, $\$ .75$, with mutit ons good
enough to export at $\$ 3.25 ;$ best lambs, $\$ 1.25$. These prices are lower all along the line than two weeks ago especially on hogs, which declined $\$ 1.25$ per
100 ibs., much to the surprise even of the packers, ho were exerting every possible inguence oo breal has been to narrow the range of prices between good and common stock. Buyers say that with the mprovement of the average quany of medium proged
they can get satisfactory droves on
hogs without competing so strongly for the few hogs without competing
There is usually a powerful effort made by the packers to lower prices for hogs just before the opening of the winter packing season-now Oct. -
but this year, when the conditions seemed most ogainst than, tor many years, considering the sud denness and extent of the decline. The stocks of provisions were very light, and the home and foreig demand was good, but prices for provisions on the
Board of Trade were manipulated, and the price of hogs was forced down in accordance. One of the strongest arguments the packers have used was the
depression in cotton values in the South. The depression this has practically cut off for this year what has been a very large demand for bacon and salt and smoked meats.
Wheat is not the only depressed staple of this
country. Cotton is also at hitherto unheard-of low prices. Cash cotton recently sold at $\$ 5.80$, the lowest price ever made. The cotton quotation, like the
wheat is about one-half of what used to be wheat, is about one-half of what used to be con-
sidered an average price.
However, there is an sidered an average pome.
ever-present law of compention at work, and the cheap cotton is making cheap feed in the South, and the chances are that farmers who are fixed for
taking advantage of it, will make money on contaking advantage of it, will make money on con-
verting cotton-seed meal and hulls into bsef. The reports of a large number of Western correspondents on wheat feding show that armers, to (when ground) as food for all classes of stock, and are using it freely and deriving benefits from its use
that are surprising. Many of the correspondents who have made scientitic tests state that one bushel of wheat, when ground and properly fed, is equal to one and a-half bushes or orn, and, as the it is apt to
when it will be used to a lare extent, it is revolutionize the stock-feeding business.
The number of very young Western pigs being
forced on the market is still very large. Correspondents generally report large numbers of young
hogs, with small supplies of fat, heavy porkers. and 27,000 on on another 31,334 sheep in one day recently, and
wool business seems to be turning the heads of
shecpowners, ndthey are scrambling to "cleanout."

## Fall Care of Sheep.

It is not uncommon, and especially now that the sheep trade is quiet, to turn the ram among the of such trust to luck. In many cases the results There is a risk of may be alrinus a crop of lambs the following spring A the ram each night, so that a feed of grain may be given him, and when turned out in the morning he should be carefully observed by the shepherd for ten or fifteen minutes. This may seem, to a great many, too troublesome, and to such we suggest an The ram should in all cases have his breast painted, and for this purpose red ochre mixed wor four days, the served ewes can be detected. As soon as
he flock have all been served, a fresh ram should he flock have all been served, a pented blue. It be turned in, having his breast painted bue.
will soon be seen whether the first used ram was to be depended on or not. There are almost always a
ewes in a flock that will not breed from one ram, but will in the case of another. Such ewes will be saved a barren year by the plan outlined. All the ewes that retain the red color, and received
no other, will be known to lamb earlier than the others, and in keeping track of pedigrees the sire of every lamb is known. If a third ram is to be
used, the color of the paint on his breast may be black or some other dark shade.
When the pasture acres of rape pakes a splendid substitute, but when his is not to be had, a daily grain ration should be wheat, and a small feed of clover hay in the morning. Ewes treated in this manner will go into
winter quarters in splendid form to suit their ipregnant condition, and, if allowed plenty of out
door evercise, liberal but plain food, adry shelter free from draughts, will bring forth a high percent
 cannot afford to ignore. Flocks that ha or summer
a thorongh dipping during the spring or sher
saison will he almost certain to contin in their fleeces a lot of ticks, and in some cases, little lice
There are several well-known preparations, either of There are several well-known preparations, teit heres
which should be used before the cold weat her come
on, but even after th
than lett till spring.

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1. The Farmer's Ad

It is impartial and ind independent of all oligues or parties,
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Contributors and Enquirers-A Request. Persons sending enturiries for our "QLEETVQS for publication, will oblige us hy al ways giving their Posi
name plainly writen, in order that no mistakes may arise.


## The Western Fair

The result of this year's Western Fair clearly
hows that London continues to hold, as it un shows that will in the fouture, an enviable position as
doubtedlicultural exhibition centre, notably for live
an ard an agricultural exhibition centre, notably for ive cultural machinery, etc. Ifike the Toronto Indus
trial, it seems to have weathered the "dull times" remarkably well, gate receipts being very little
under 1893 . We were pleased to observe that some under 1893. We were peased in the ADvocate, re-
reforms advised a year ago in garding ground management, were carried out, the "side-show element" being less conspicuous.
trust the directorate will see their way clear to fur
therimprovements in the arrangement of live stock buildings and grounds, and in providing a suitache seated pavilion, so that the judging of cattle, etc.
may be viewed with something like the comfort enjoyed by the spectators of the speed and attraction
ring. This would be a step towards making the ring. This would be a step towards making the
Fair more of an educator along live stock lines, and be appreciated as a great boon. Cur review of the animals shown at London is of
necessity brief. Most of those exhibited were shown at Toronto, and as we reported very fully each de
partment at the last named Exhibition, it would be partment at the last named Exhibition, it would be
wearysome to our readers t) reiterate what we said in our last issue. We therefore have only men-
tioned at length in this report such exhibits as were not shown in Toronto.

## HORSES.

The Clyde exhibit was the lightest for a long
Lond at Lond there being too few in most of the sections to use up the prizes offered. In the aged im ported section were just three forward. E.W. $C$. stakes winner, is a well-known show horse. He is
a solid, well-finished fellow, that carries himself a a solid, well-finished fellow, that carries himself at
the end of ten years like one not much past the colt He, too, has a splendid body, but failed to show the springy action of Wigton Lad. Mr. John Hender
son, Milburn, came in third, with a useful horse, of son, d quality and action, but considered a little too
good quat
rangy to beat the aforenamed. The younger stallion sections gave the judge a light task, as there was colt for each section. First prize, three-year-old, Alex. Holmes, Beachville; two-year-old, S. J, Prouse, Ingersoll : yearling, John Oliver, Duncrie places in good company. In mare sections. Geo. Duffield received first for brood mare, and also for two-year-old filly. They are of that smooth, solid
type, with good quality of limbs, which seldom, if ever, go wrong. Messrs. Charlton's second prize
brood mare, first prize three-year-old filly, and foal of 1894, are a nice Clydey lot of horses. S. J. Prouse's third prize brood mare, first prize yearing mare, and second and hold on to till the lively demand for
safe enough to
heavy horses, which is sure to come before long, heavy horses, which is sure to come before long,
will make them a valuable property In the Canadian-bred Draught class, the entries
were few. In mature stallions, three were shown. Vance \& Eby's Golden Grown would have done
credit to any imported horse ring, as he is a monster of splendid conformation. His body of $2,200 \mathrm{lbs}$. is without the sign of roughness, and his short, strong back, deep. sloping shou der, giving him a
splendid lengthy underline, is well carried upon a set of good wearing legs and feet. The remaining two possess good quality of legs, but were not in
that heavy show condition to crowd Golden Crown for the first place. They were shown by Geo.
Caylor, Kippen, and George Carrie, Ballymote. In three-year-olds, Dr. Harold's Samson was shown plone ; he is a worthy son of Ringleader, having confidenceinenteringany draughtstallion show ring. c. Taylor's yearling stallion had nocome Mr. Taylor
too, possesses nice quality and action. Mor which he also showed a nice lot of mares. for whe sweep-
obtained second on brood mare, first and sol 1894 (ieo. Spearin, St. Mary's, had out the first prize brood mare and foal : they are both-meri-
torious Clydes. The foal is almost a model. Hyder Parkin, of Oxford Centre, had out a nice
A Phibit of Olydes and general purpose stock, for which they received a good share of awards, which the prize list shows. J. S. Robinson, of St. Mary s,
exhibited a pair of fillies two and three years old, They were make a team har nice growing condition, They were thet carried broad, useful, Clydey bodies. on legs of hard, flat, well-feather

appearance was as outstanding at the Western as解 tallion section here. The younger stallion sections ontained a small number of promising colts. The There was much unevenness in most of the sections, but quality was outstanding in enough to use up lie awards offered. In matched pairs, perhaps the weeds, as H. Cargill \& Son's first prize Toronto winners were among them, and took an easy first. A fairly well matched pair of grays, with good
action, received the second award. In the single oadsters, ten were shown, about four of which were tolerably good ones. Several in the section
were pacers, which did not assist them in getting were pac
a place.
In the aged stallion class, like at the Industrial, a f Jas. McCartney, Thamesford, carried off the first nd sweepstakes awards. He is a handsome horse ond subeat substance, without coarseness. Do. His plendid trappy action should make him a very afe horse to use, to get the popular horse of the
ay. Improved Mambrino Hatcher, shown by D. Garoll, Ealing, the second prize horse, is a good,
animal; he is a beautiful black, $\frac{1}{2}$ weighs about $1,400 \mathrm{lbs}$., and stands $16 \frac{1}{\frac{1}{2}}$ hands high. He has stylish, and rapid action, plenty of bone, and has proved himself a getter of good stock. C. D.
smith's brown horse, the third premium winner, is a trong, useful animal, but lacks that breedy appearance of his more successful competitors. The younger stallion sections had out a few nice colts,
competition being strongeet in the two-year-olds. In all the filly and mare sections were good ones, and was as free from weeds as we have ever seen at
the Western. R. M. Wilson, Delhi, showed a splendid pair of carriage mares. They are handome, well matched, good movers, and large enough.
Mr. A. Beck came in for best team between $15 t$ and 16 hands. He also made a fine display with his
saddle horses and hunters, while his pair of cobs saddle horses and hunters, while his pair of cobs
and four-in-hand were much admired whenever brought out.

THOROUGHRREDS.
Very few representatives of the old English stallion ring were three splendid animals shown
Fred. Row's Norwegian, described in our Industria Fair report, won first prize here, with J. B. Martin's Renelagh, and A. \& P. Holmes' Pallarist, in the dearth of younger stallionsen, as a solitary yearling
comprised the lot. He was shown by W. Aage comprised the lot. He was sholt of great promise.
Nilestown, and is a breedy colt of
Mr. Sage also showed a two-year-old flly, and C. Mr. Sage also showed a two-year-old flly, and C. P
Geary. St. Thomas, a brood mare with foal at foot. Mr. A. Beck also showed a nice two-year-old filly CATTLE
were a strong division. Many of the Toronto prize winners were here.

## shorthorns.

The exhibitors in this class were James Crerar \&
on, Shakespeare : Messrs. Smith. Exeter ; John Morgan \& Son, Kerwood; Chas. M. Simmons, I I yan Thomas ; H. Cargill \& Son, Cargill ; R. \& S. Nichol son, Sylvan ; James Rennie, and others. Thos Sons. who were out with nine very nice animals. $\mathrm{W}_{\text {. }}$ (i. Saunders, who showed two, a red bul calf, which he sold tho
and the aged bull, Elgin Chief, bred by A. Johnston, got by Indian Chief. Th
fifth at Chicago last year
H. D. Smith, Compton, P. Q., and F. A. Fleming,
Weston, showed the same animals hict is in Weston, showed the same anmmals
Toronto. There were no other exhibitors. - galloways
were likewise represented by two herds shown in
Toronto, viz., David McCrae's and R. Shaw's. the polleid-ancies
class was also filled by animals shown at Toronto class was also filled by animals shown at Toronko
The owners were R. Craik, M. D., M Montreal; Hilli-
hurst Farm, Compton, P.' Q., and Walter Hall,
Washington, Ont.

## DAIRY BREEDS.

The Ayrshire exhibit was large, and contained a ot of grand cattle. Mr. Steacy, Lyn, and Mr. Cockburn, A beryfole, brought their herds here in the winnings. As they have already been described, it is not necessary
Bros., Bryon, were out again this year with their
Their aged bull, Castle wel Douglas, retains his fresh appearance, and captured are in splendid breeding and milking fix, but not
fitted for the show ring. Mr. Walter Nicol, Plattsfitted for the show ring. Nr. Watle, headed by St.
ville, had out seven nice catter
Nicholas, a splendid two-year-old, upon which the Nicholas, a splendid two-year-old, upon which the
second prize was awarded. The females are nice
and second prize was awarded. The females are a nice
lot, that received a number of awards. Mr. M.
Ballantyne, St. Marys, was present with a useful
herd, hut, as they are kept to make money from at
home, they had not the show-ring appearance of the
 young stock of this herd are particularly praise-
worthy, which is evidenced by the fact that in the


 made good reoordisin the eontestst, The eseornd prize maded bool , yearding bell, gated cow and forrt prize
agearlink heifer, received their awards in right good yearing company.

JERSEYS
The little cream skins were out in good numbers. Wherever Jerseys exist, there are always people to admire them. They seem to have wended the confidence of almost everybody that likes a into the confidence of almost everybody hat Smith
handsome little butter producer. Mr. J. H Smiter
\& Son, of Hightield, who exhibited quite successhandsome little butter producer. Mr. J. H successfully in Toronto, made a good record here.
Mr. O'Brien, Iondon West, is becoming known as. a breeder of the resht strain of Jerseys. His herd of nine is headed by Earl of Orgrove, the
2 -vear-old first prize winner. He is a capital animal, 2-year-old first prize winner. He is a capital animabl,
with every indication of ability to sire the valuable rich and deep milking sort. The females of the herd received a good share of awards, which they well deserved. Mrs. E. Lawrence was among the
exhibitors, with three very nice cemales. They are exept to make money from, and are doing it so well that Mrs. Lawrence claims that there are no others like the Jerseys. Some of the prizes came her way, as well as prizes for their product in the butter exseven head of well-bred Jerseys. His two cows, Lady Bronze and Lady Fawn of Hyde Park, are
nieces of Ida Marigold, the cow that made the highnieces of Ida Marigold, the cow that mast. Laidlaw est Humpidge, of Wilton Grove and London, respectively, made a nice exhibit of their twelve
head of St. Lzmberts and St. Hilliards. Their yearling bull, Prince Frank, winner of first prize yearing bun, Prince Frank, winner of hittle model of splendid breeding.
and diploma, is a
The bull calves and females are a nice lot. They The bull calves and females are a nice lot. They
received a good share of first prizes. Mr. Isaac received a good share of first prizes. Mr. Isaac
Holland, Culloden, exhibited an aged and a yearling Guernsey bull among the Jerseys. The former, May Roseberry, was good enough to lead so far at the Industrial as to capture first and sweepstake prizes is hisd with second place, which perhaps is an honor to him in such good company as was shown
in the mature bull section. Mr. Richard Gibson, in the mature out a nice display of Jerseys of the proper type and breeding. Representatives of thi proper type and rea in the Western show rings in previous years, and
IN THE HOLTEIN-FRIESIA
class were the splendid herds of McDuffie \& Butters, . Witemons, and A. \& exhibited with good success in Toronto. These
herds have been carefully described in our Indus trial report

## SHEEP.

The exhibit w
former year.
shropshires
were numerous and well brought out, and stood n about the same position in refation to other in Toronto were here. Beside these, A. \& A. Mc Pherson, Forest, was from a flock of eighty, all of which are descended from importations made by John Duncan R. Gibson, Delaware, showed fourteen-a good lot, containing some very useful specimens. The to be very attractive to buyers. John Duncan's floc numbered twenty-all in thin flesh. W. E. Wright ilanworth, made a noteworth e yearlings and aged were large and good, as were the yearings and age
heep. Though not fat, this flock was brought out heep. Though not manner. James ('ooper \& son Kippen, ont., exhibited twenty-three very good
specimens-large, well-wooled and of good quality. They were a most desirable flock of well-bred sheen The other exhibitors were T. D. Hodgins, W. H Beattie, John Campbell'and Messrs. Hanmer \& Son, Mount Xernon. The las at Toronto.
CoTswolds.
Messrs. J. (i. Snell \& Bro., Edmonton, who were
rominent exhibitors at Toronto, were here with prominent exhibitors at Toronto, were here with their fine flocks. Besides these, Wm. Jackson (ilan worth, eighteen typical Cotswolds. In wool,
size, quality and breeding, this was a good lot. (ieo. Weekes, Chanw
nens.
THE LEICESTER
hreeders made a large exhibit. The flocks of John meeders made a large exhibit. The flocks of John
Filly. Jas. Smith, J. Laidlaw, Nichol Bros. and C. -

were not as strong a class as at Toronto. W. B Cockburn and Peter Arkell each made a fine display
A. Elliot A. Elion.
were not numerous, but what they lacked in number was made up in quality.
only exhibitor in this class.
other breeds.
Suffolks were represented by W. B. Cockburn's
flock. John Kelly was the only exhibitor of
Hampshires. Messrs. Smith, Fairfield Plains, alone Hampshires. Messrs. Smith, Fairfiel Plains, alo
showed Merinos. Messrs. John A. Mctillivray, Ux showed Me. A. Harding, Thorndale. and Shaw-Wood, London, exhibited Dorset Horns.

## SWINE.

Like the sheep, swine were a numerous and good
Jos. Featherston, M. P., and R. Dorsey were the principal exhibitors. berkshires
were a numerous and good class. Geo. Green, Fair the chief feature in this class. D. A. Graham, Park hill, was out with twelve, all bred by himself. A desirable lot they were in every particular.
Ackland and H. J. Davis were also exhibitors.
Yorksmres
were numerous and of good quality, though, as a
class, were not as even as those shown in Toronto. J. E. Brethour made a fine exhibit. Jos. Feather-
ston, M. P., was also to the front. Wm. Goodyer, ston, M. P., was also to the useful lot of pigs, but not in high flesh. H. J. Davis was also an exhibitor.
CHESTER WHITES
were represented by many of the same animals
shown in Toronto. R. H. Harding, Messrs. Butler shown in Toronto. R. H. Harding, Messrs. Butler
\& Son and H. George \& Sons were the principal \& Son and
JERSEY REDS.

The animals shown in this class were virtually the same as were shown in Toronto. Tape Bros., In poland-chinas. In this class the fine animals shown in Toronto
by $W$. \& H. Jones, $W$ \& $\mathbb{F}$. Row and $W$. M. \&J. C. Smith were here, and formed a most notable ex-
ibit. The superior quality of these herds was even more noticeable than at Toronto

TAMNORTH: and various and amusing were were out in full force, and various and amusing were
the remarks we heard concerning them. H. George \& Sons were again exhibitors. W . H. Odell, Belmont, showed thirteen, none of which were in high
flesh, but were a nice smooth lot. W. \& F. Row, of shown in Toronto.

CHEESE AND BUTTER
Two hundred and fifty-five cheese were on exfrom Western Ontario, with the exception of seven from Nova Scotia and seven from Prince Edward
Island. The cheese, as a rule, were neat and tidy in appearance. A few lots, however, presented an unsightly appearance, and did not reflect very muich
credit upon the cheesemaker. The quality was not quite equal to last year's exhibit. The August cheese especially were lacking in flavor, due nearly altogether to the unusually dry season, which ren
dered it verv difticult for makers to get a supply of pure flavored milk. The sweepstakes prize was pure flavored milk. The sweepstakes July cheese givered more for flavor than the August goods. The
total money prizes for cheese amounted to $\$+20$. Thal money prizes for chese a number of special
This was up partly by a
prizes as follows: $\$ 100$ from the Western Dairy prizes as follows : $\$ 100$ from the ('hartered Bank
men's Association ; $\$ 150$ from of London; $\$$. $\$$ \& coro, Little Falls, N. Y. The judg-
D. H. Burrell at was done by score cards, similar thicago. The highest number of points made by any exhibit was 96 , and the lowest 16,9 the ma
jority of the exhibits scoring between 9 and 91
points. A score card, with a record of the point points. A score card, with a record of the points
made by his cheese, was mailed to each exhibitor after the Fair. Mr. A. F. MacLaren, of Stratford,
was sole judge of cheese. There were thirty different exhibits of butter
fourteen from the creameries, and the balanc farmers' or dairy butter. The displav of creamer butter was not as large as last year. The quality
the whole was good. The objectionable feature
were to be found in the color and salt ing chiefly, were to be found in the color and sath having to
number being too light in color and haver
much salt. A few lots were scored down one or two much salt. A few lots were scored down one or two
points because of had packing and the use of the
plat "cotton cloth." The total score made by the creamery butter ranged between!s and !! peint
There was a much larger suply of famer butter than last year. Its urnary farmers are adopting new thd in
many of our The same faults might be said of handlang butter. the "reamery hutter, only thev were murn mine
able in the former. I fow rathits alon ...... d


Score cards were also used for judging tho butter, olor, 15; salting, $10 ;$ packing, $5-$ making a total Stratford, was judge
Special prizes towards the butter sections were Special prise as follows: $\$ 100$ by the Ontario Cream-
contributed ant eries' Association ; \$3, R A. Lister \& Co., Dursley, Separator prize, by R. A. value of $\$ 23.25$ by J. S.
England ; and prizes to the val Pearce \& Co., London. Mr. J. S. Pearce, the director Much credit is due Mr. J. S. Pearce, the director capable management of this branch. The large number of special prizes to are due nearly altogether to his efforts.
chinery The prize lists for cheese and butter will be
俍 found in another colmachinery exhibits.
A large number of cheesemakers say that the number of cheese required to make an exhibit in the different sections is too large. In sections one This means extra freight charges upon the ex hibitor. Many makers who do not exhibit now, say they would do so if the number were less. It this another year, as we believe they would get a much larger number of exhibits. and the abese to make as go
regulations.

Annual Sale at the O. A.
The sixteenth annual sale of pure-bred stock was Oeld at the Ontario Agricultural 3 rd attle and swine with few exceptions, was good ; nearly all of these were in fine condition and well prepared for sale. In a word, it was the best managed and best colleg ducted sale we have ever is to be congratulated Farm. Mr. Wm. R the auctioneer, and performed J. D. Heffernan was the auctioneer, and business-like his part in His style was refreshing; he used no foolish jokes, so common with auctioneers, but pro ceeded with the business on hand without any nonsense. His manner inspired confidence. The first animal offered was Lady Sybil, a Hereford heifer, calved February 24, 189. She was her good quality. James Auld, Eden, another Hereford for 13 , 1893. This, also, was a heifer, calved The buyer was Alfred Stone, Guelph. Price, $\$ 57.00$. A Galloway heifer calf, of splendid quality, was sold to David McCrae for $\$ 20.00$. She was calved February 23rd. Blooming Rose 2nd, an Angus heifer, calved March 14th, was bought by Hugh McDougal for \$13.00. Alfred Hales, a butcher. bought the imported Sussex cow, Boctober 22, 1893, $\$ 50.00$, and a sussex for $\$ 25.00$. An A pedigree, was a nice, vigorous calf, about four months old. The pigs offered were a grand lot, fit to grace any
how-vard in the land. Twenty-seven Yorkshires show-yard in the land. Twenty-seven Yorkshires of various ages were sold, and made an average of
nearly $\$ 17.00$. The average age was about seven months. Sixteen Berkshires were sold at an average of nearly $\$ 12.00$. The average age was six months. Three Tamworths, farrowed August 24 , two boars and two sows. The sows brought $\$ 29.00$; the boars, $\$ 26.50$. The pigs had been carefully
selected, all poor specimens having been sent to the selected, all poor specimens having been sent to the
feeding pens, and will at a later date be converted feeding pe
into pork.
The prices realized for the sheep were low, except in the case of the Shropshire females; these

Elevator Capacity of Western Canada
A table showing the storage capacity of the elevators on the various lines of railway in Western Canada, which has been compiled by the Winnipeg Grain Exchange, shows the following totals.
'. P. R. Main line.
P. R. Deloraine branch
P. R. Glenboro' branch
P. R. Emerson branch
P. R Stonewall branch. BUsB.
$7,415,700$
$1,16,000$
P. R. Other branches.
(irand Total C. P. R. $10,059,100$ 84,000
$-61,500$ 6511,000
$11,355,600$
nd Total ..............11,355,800 mand total was hial capacity of flour mills is 8,270 tal capacity of flour mills is

October 15, 1894
THE FARMER'S ADVOCATE.

Feeding for Fat and Lean Pork. Hogs That Are Hogs. The great bulk of the sharp discussion that has barmerr's Adrocaty bet ween pork producers and packers has been that of hreed against breed, as to
which yields the greatest amount of lean to fat which yields the greatest nmount of lean to fat to ignore the effect of feeding when we have the
same end in view. Experiments conducted at the ${ }_{W}$ same end isconsin Experiment Station show clearly that the sort of food fed to hogs materially effects the proportions of fat to lean meat in the dressed carcass The beginning of the experiment, were fed from Dec. 15 to March 2.2 ( 98 days) on the following rations:-Lot I. Two-thirds shorts, one-third cornmeal. Lot II. Cornmeal only. Lot III. One-third
cornmeal, two-thirds sweet skim-milk. The following table gives the main results of the f It has been frequently stated that the use of a
oun de plume when writing to the press is a proof that the writer is either overwhelmed with modesty or that or that he has more than one object in view in writing: and further, that the contents of such a letter as that written by "Invicta" are of little
value without the name of the writer, since'readers of it are unable to form an idea of the knowledge and bona fides of the anonymous writer. An trouble may be true or not, but do nut, make strong assertions, and then have not the moral courage to stand godfather for their adopted ones. - "Invicta is very irate an improvement might be made in the bacon pigs from Manitoba, and fairly mad with that gentleman for pointing out the man-

Herewith are given photo reproductions taken
from report $V$. of the above mentioned experiment from report of of the above mentioned experiment
stations, showing cross-sections of carcass of pig from each lot, the cut being made between fifth and sixth ribs. Not only are the relative proportion of fat to lean, and the size of the muscles shown,
ner in which the bacon "pigs ince" proceeds to make been vastions which Mr. Flavelle's letter clearly
assumptions proves to have no foundation in fact, and the latter further gives some facts which, if pricta stuefit to him. "Invict" to give us, for the benefit Might I ask "Invicta" he Yorkshire grad experience which warrants that rather strong assertion of his, that "every other breed's grades are more pro "Invicta" to give us, is the more necessary since his opinion is one not generally held by breeders and feeders of pigs in
almost every other part of the world, than in the almost every other part of the world, than in the
limited area of the Province of Manitoba. If limited area of the Province of Manitoba. If
desired, I can give a list of some thirty-six colonies

Our Scottish Letter.
The first fortnight of September has been a re markably fine time. Harvesting operations are very general, and there has been an almost com-
plete cessation of rain, with continuous sunshine, and much grain has been safely housed without receiving any wet. This is rather an unusual ex
perience in this part of the world. Sometimes "the perience in this part of the world. Sometimes
rain, it raineth every day,", and when we have such
i spell of sunshine we begin to mavel at our a spell of sunshine we begin to marvel at our good
luck. Barley will not be a good sample, as the luck. Barley will not be a good sample, as the
previous wet weather had spoiled it : and wheat has previous wet weat trom September 18 , heen selling at a lower average than has been reached in thi
country for over 20 country for over 200 years. Previous to the days of
foreign competition, 1894 would have been regarded as a season in which farmers could have secured suhstantial profits; now, however, all this is changed
and whether the season be good or bad makes very and whether the season be good or bad makes very
little difference, as the foreign imports equalize the values. Generally the aspect of affairs for purely cropping farmers is not reassuring, but earning a engaged ittle moner is presented September is a favorite month with stock-breeder who are having rublic sales, and this season the sales. The great rival breeds the Shorthorn and the Aberdeen-Angus have been somewhat numer ously represented in the sale rings, and prices the latter have, in one or two instances, been
phenomenal, while even the cheapest lots have
 loss. Looking at the sales which are past, one is dis
posed to regard the representatives of the black posed to regard the representatives of tho shom them
skins as making the better show. Amongst skins as making the better show. Amongst them
there were fewer weedy cattle, and prices did not
in any case go so low as they did in the case of some

fed CORN-mea
FED SKIM-MILK
are easily noted. The muscles of the hog fed on shorts appear dark, indicating the deep red color of appeared very light colored and bloodless. The milk-fed hogs gave an intermediate colored meight of liver and kidneys over that produced by feeding cornmeal. Regarding the strength on the different foods. decided diferene milk was fed, the bones were the strongest. Shorts made a strong bone, but not quite equal to that produced by milk. The actual
difference of bone between the corn and milk-fed difference of bone between the corn and menn- if the bones of the corn-fed hog are less strong than they should be by onesixth, and these hogs are used as breeding stock, what fatal cherations.

Easter Veals.
A trifle over five months and Easter will be here,
with a demand for choice meat. Fairly well bred wilves of any of the beef breeds. if real fat, at five or six months old wordinary steer at one and a-hal mark. Now is the time to commence getting them
yeady. In fitting veals. it will pay to allow them new milk for three or four weeks. Skimmed milk meal porridge, fed sparingly at irst and increased as the calves hecorn to eat. pulped mots and ground wheat they learn to eat, pithee all they will eat up cleanls, will hurry calves along at a rapid rate
them almost twice daily,
box stalls at dry, sweet,
separate, they
countries to which I have shipped my Improved Yorkshires during the last thirty years, and it is a most curious fact
have imported the greatest number and for the
longest period, there the Improved Yorkshire is longest period, there the Improved Iorkshire is the Improved Yorkshire has fulfilled its mission in countries of one particular climate. but have Shiperia, to nearly all parts of Africa, to South America, to every country in Europe, save Gireece them notoand and Australia, and the dema, easing Of what avail, then, is it for "Invicta" to recor his very small experiences, and that one exper
ment which is recorded in the D. . Experimental Farm Report for 1893, and which can be of hitle value-even if were as I have no doubt they were, was carried out were, as both are directly opposed to
duly considered-since bo every-day facts.
If "Invicta" will comply with my modest re
quest and sign his name to his letter, then your questers and I will have much pleasure in giving his opinions and statements that consideration which
they will then deserve. they will then deserv
Holywell Manor, England.
It is reported that the Illinois Milk-Condensing ith the dairymen of that section for their milk supply for the coming six months. They pay
twelve cents a gallon for the months of October. November and December, and eleven cents for Jannary, Fehruary and , Nary. quarts per day were confactory it is sad at the bottling factory $x$ (i), wh quarts. At Carpentersville and Algonquin the company pays
the same price. The former nlace use about 2 (lin) the same price
quaris daily.
of the shorthorns. The eales of the latter have een confined to one or two select herds, and apart lot. the red, white and roan seem to have been rather over-bred. The purchase of cattle on pedigree alone is a bad business at any time, and breeding
hem on pedigree alone is equally nnsatisfactory. No one needs to keepa a clearer head than the hired er of fine stock. It is very pasy to become hipoted on
one strain of blood and the moment that happens, one strain of blood, and the moment that happens,
the fate of a herd is sealed. At the local shows the season around Underley, where the celebrated
Bates herd of the late Earl of Bective long found Bates herd of the late Earl of Bective long found a home, not a single pedigreed Shorthorn of that re useless. and farmers who have to cater for a dairy market have no desire to have anything seen some "weedy" cattle on the Booth side of the seen some brought inder the hammer, and there are
house
also weeds among the Aberdeen Short horns. The lso the world taken all in all, the best breed in the world: owes very little of its pre-emninence were a fancy article and not a useful all-round dairy and beef producing cattle. Like the thorough-
bred race of horses, the best and the worst of its kind are to be found in the shot thorn breed. The wist beef cattle in the world, and the best miking A. Po thorn ranks than elsewhere INore.-
St a imprexion that specaa purpose breeding and xperience of thousands of American dairymen, and the results of the great World's Fair milking trials. do nut be © it out. There is no questions whatever
that either the beef or milk function of catte mayy
be abormai'v developed at the expense of the

## FARM.

## 75c. for Wheat.

BY F. J. S.
A considerable portion of the Province of Ontario is well adapted for the growing of wheat. In such sections farmers properly desire to continue it the grain, the quantity of good straw and chaff is a strong incentive to its growth, the latter being an especially fine adjunct to a winters (we speak of fall wheat) i
Not only so, but wheat a decided advantage in a rotation, is an evener of labor and one of our best crops for holding in check weed growth, and eventually a helpful adjunct to the manure pile. But the present price for wheat
does not warrant its growth if the grain is to be does n
sold.

But there are other uses for wheat. We notice in a late Toronto Globe that" aed also read "comfor shipping are hard to get, ano veals, $\$ 1.50$ to $\$ 2.50$; choice veals, $\$ 5$ to $\$ 6$; mon veals, $\$$ hogs, slow sale ; prime animals, $\$ 5$ per cwt. on foot." On reading this, we remember that wheat is worth fifty cents per bushel. Therefore, it would seem that some farmers choose two losses, cheap grain and cheap stock, when it is possible combine the two and have at least one go
the results of experiment
with wheat as food for stock are worth some consideration. The Chis line. Corn ensilage and frozen valuable pitted against three other excellent rations in the production of beef gave not only a greater increase, but a much cheaper, the cost of feeding per day being least with the wheat,and the daily increase much the greatest, cost of ration considered. The quality of the frozen wheat beef was pronounced "particularly excellent. In shor, wheat is a cheap and effectual food for beef production. We grant that every experiment might not show equally favorable Ontario farmers grow better wheat than was used in this case. Experiments at the same station, on the feeding of frozen wheat to swine, confirm the results obtained by many farmers. Frozen wheat (ground and soak to swine,
hours) was worth 73 cents per bushel fed to swer hours) was worth 73 cents per bushel fed pound, live weight. We met a farmer the other day whe
averred that he had made a dollar per bushel of eil averred that he had mat to swine. An Americun
his wheat by feeding it to
farm paper is responsible for the statement that harm paper is responsible for the statement that
farm
"At 5 cents per pound (live weight) for hogs, $\$ 1.00$
and "At cents per pone bushel of wheat." Certain it
may be made of
is that intelligent Americans now know that wheat is that intelligent Amerc and better pork than corn
and corn will make more alone. Less than four pounds of wheat will make
one pound of pork (on foot), but, as a rule, more one pound of pork (on foot), but, as a rule, more
than four pounds of corn are required to do the thane thing.
O. E. F. e
experiments with wheat as a food for
while in one case did not show par milch cows, while in one case did not show par-
ticularly good results, in the other gave fairly good ticularly good results, in As oheat is now ten cents
returns for wheat fed. lower per bushel, the present profits on feeding this
cereal would be to that extent increased. However, cereal would that the above experiment would have
we think
been more valuable if some other grain or grains we en more valuable if some other grain or grains
beed been fed in conjunction, as wheat is decidedly
had too carbonaceous a fodder ever to filion requirements for mat has never failed to give good satisfaction as
wherain ration for milch cows, and with butter at a grain ration for milch cows, and with butter at
25 to 30 cents, as at present, wheat may be sold for at least 75 cents.
As a food for horses, the value of wheat is well
known. It is more especially valuable for heavy known. It is more especially valuable for heavy
horses and horses at slow work, and may profitably take the ph.
for weight.
for weight. $\begin{aligned} & \text { As a food for poulty, wheat cannot he over } \\ & \text { estimated, and many farmers might very profitable }\end{aligned}$ estimated, an portion of their crop in this way. In
sell a goodly
the face of the present price of wheat, and of agri the face of the present price of wheat, and of agri poultry raising does not more rapidly grow.
HOW TO FEEI WHEAT.
Feed wheat gromen fine to horses and milch
cows. To swine, coarsely ground wheat. will give
better results, and feed it dry in winter and soriked in summer t, welve to twenty-four hoursi. Fi
poultry, whole wheat is preferred. For fattenin poultry, whole wheat is preferred. Foarsely ground wheat is, per hatp, its
sheep, coats or other gratin.
mixed with ground oats or mixed with ground oats or other graill
Do not feed wheat alone, if you wish
full food value. It is a carmonaceon- fown
with few exceptions such foder alway sive bey
 gre suitable adjuncts' to rations of
Fur butter and cheese, mutton
poultry, if fed to the proper class of sh
proven, both by experimental stations

## Wheat for Hogs and Steers

The following testimony, regarding the feeding of wheat to steers and hogs, is furninhed the
Kansas State Board of Agriculture by $M \%$ G. W. Kansas State Board of Ag
Clawson, of Ellisworth Co. : "In November, 1893, I put on a full feed of wheat
out eight hundred head of Pan Handle Texas steers and fed them for a period of four months. These steers where from ranges where they were unused to grain of any kind. They where fed a mixture consisting of about 60 per cent. corn and 40 per cent. wheat, chopped or ground coarsely on a horse-power grinder. I have had, for the last eight years, experience covering the same months each year in feeding about the same number and fualing seasons I fed entirely corn, usually shelled My experience in feeding the mixed food was highly satisfactory, both as to the quickness of time in which I could get the animals to rightly take hold o no hesitancy in saying that steers fed on a mixture of wheat and corn, in about the above proportions, will gain pounds a great deal faster than on corn
alone. During the season I fed 9,000 bushels of wheat of my own raising in this country. About half of this was fed to cattle, as stated; the hogs in the nature of slop. Careful experiments showed that a bushel of dry corn put on fourteen
pounds of pork, and a bushel of wheat ground pounds of pork, and a bushel of wheat ground year feeding on the same farm, 16,000 bushels of
wheat ; 4,000 bushels of this was of my own raising wheat; 4,000 bushels of this was of my own raising
and 12,000 bushels were purchased locally at prices ranging from twenty-eight to thirty-seven cents
per bushel, or at an average price of thirty-five cents.
since a $\dot{c}$ on the Kansas City market a short time since a carload of pigs fattened entirely on wheat,
which brought $\$ 6.10$ per hundred, and averaged 249 pounds. These pigs never knew the taste of corn
I have, at this time, more than 1,600 head of hog of my own raising -fattening hogs, pigs of all ages and descriptions, stock hogs and breeding hogs
and during the last ten months I have fed no corn and during the last ten months have fed can buy
whatever, nor do I expect to as long as I. all ay
wheat at or about the same price as corn. All age Whatever,
wheat at or about the same price as corn. All ages
and stages of and stages of hogs appear to thrive better on
wheat than on corn. Mine have been entirely free from disease. Where a bushel of wheat, costing cent pork, there can be no suestion of the profitable ness of wheat feeding. For feeding wheat to hogs
I advise grinding the grain coarsely, soaking it and using as a slop. I have fed some dry, whole and using as a slop. wheel confident that, owing to
defective hastication, better results can be obtained defective mastication, better results can be obtained
by grinding and soaking. I consider wheat by grinding and soaking. I consider wheat
superior to corn as a food for hogs, and that a
bushel of wheat will put on at least 10 per cent.
more in weight than a bushel of corn."

The Codling Moth.
Apple-growers are complaining bitterly of the Apple-growers are during the past few years. This year they were particularly bad, even in orch ards that have been thorougly sprayed.
Irish "Farmer's Gazette":-"One of the best means of eradicating this pest is to gather up all the fallen apples daily, and either use or destroy them in some
way, so as to destroy the insects they contain. But way, so as apples are picked up promptly, the in-
unless the ape
sects will have crawled out and hidden themselves." Another method of exterminating is given in the same journal: to place hay bands, or wrap
old rags round the stems of the trees. By-and-bye the insects will crawl up the trunk and creep for
shelter under the covers, where they may be easily shelter unde
destroyed.

## destroyed. We ma

the right track that the above remedies are along we righticed ack, much effective so far as they go, but trial and Western Fairs this year, in the form of an
inverted funnel, and known as the Mccill "Tree inverted fo." It consists in a composition collar,
Protector.
which is placed round the trunk of the tree and stuffed at the upper extremity with a piece of tow rope, into whe results of using the appliance were
tection. The rel had been
shown by samples of the tow rope which had shown by samples of the tow rope which had been
removed after a few weeks' service. Several of them Contained numerous cocoons of the coding and ot her insects seeking shelter. Its effect on orchards using them cannot help but tree to deposit their eggs. In Farmers Bulletin No. 172 of the United States
Whartuent of Agriculture, Dr. Erwin F. Smith
ans: : ays: ". It present peach yellows seem nearest armiegation. It is nowenon recognized that variegation
an matly thans is a disease manifesting itself in

 nlition is trancmissable to healthy
or grating, in the same way as
of hardwood, and securely fastened to the floor or ground. An opening from six inches to nine inches should be secured exactly in the centre of the frame, so as the sow cannot reach it and turn it
over. The length of the frame and trough will depend upon the size of the litter being weaned A Parting Shot.
Editor Farmer's Advocate:
Mr. Flavelle, in his counter-blast in your las issue, ignores my assertion the goes on to tell us wha
dear pig to feed. Instead, heir cured meats, etc. the Danes receive for their cured meats, et.
believe the Yorkshire meat is as good as the Poland believe the Yorkshire meat is as good latter. I usually
China, but I would rather keep the sell my pigs half fat-the buvers want them "hat
way; and if I wanted to get Yorkshires even "hal fat," they would require more food thin
Poland-Chinas, Chester Whites, or the Berkshires, and I can get any of these breeds long and lean
enough by suitable feeding and selection. The editor hits the crur. of the difficulty by saying the "individual Chive me an extra cent a pound for
considered. Give
Yorkshires, live weight, and Illl keep them ; but as lorkshires, live weight, and rit keep them, to keep
long as other breeds pay me better, I mean toll
them that is all.
While whitewash on the walls of the hen-house
inside gives light and renders the house reerful, it is cheap enough to use on the outside an woll.
those who do not care to use paint will
ouhite-

thit thit shald be no obstacle to its, use, as an4.

OCtober 15， 1894
THE FARMER＇S ADVOCATE

## DAIRY

## The Sour Whey Question．

The answers so f．r．r ecei ved to the circular sent
factorymen by the Westertin Dair yments Associ－ ation indictate that abouts．teventiffive per cent of of whey to the patronsin the milit cans．A A Mod lunany



 matier of habit，Where，for anduther of years，the whey returned，they would refuse to patrunize the
factory if any other plaul were aldoptell，and they
 fed or or sold at the factory
 tuat it trould be impossible to manage the busineess
successsully withount having the whe at sucessituly without having the whey at home to feed his hogs．This is one or the strong arguments
advanced in finvor of returning the whey，and is often made by patrons without fully considaring
whether they would not
have better resullts by dis posing of the whey at the factory and do a way with
the risk of having the milk effected by the sour whey flavor
sold at the fans from the the paces where sho what the the prices reanizised


 farmer keeps a large number of cous and gets
home sufficient whes to use to advantage，在e mas burned．But，as is generally the case where the share of whey is very small，it would be much more Profitable to sell or use the whey at the factory
Very often the small patron lives in the hope that the mili－drawer will，in some peculiar way，give lthe pump hande a few extra strokes when appor
tioning his share，and he would thus be bile to get
get more whey back than the milk hesends． tories sold thers whey an the fanctory under contract Tor five yarss al s．in per fon of cheese．During
 cents per ling liss．for mak inges．and it was wonder done for tycents． $1 t$ is explained by the fant that the proceeds of the ehhey more than paid for ortaw．
ing the milk，
In actual tigures，the paitros of this
 whey to 100 lobs．of milk，they artually reeived five


Chantuna valup

The actual value put upon perfectly speet whey
making a chemcial analysis of it，is rom five to fight cents per ino olss．The The souring of the whey is due to the sugar of mikk being changitse chief feeding


 where the whey tanks are not kept in a pure condil conors very quitckly．Under such conditions，when
the patron receives his share of whey，it is perfert． ly sour and rank，and is not worth much more tor








 of having min
cans in which


as soon as the whey is returned from the factory，
would have it dumped out and the can thoroughly
 liboratal supply of suni ght the the bad results connected
with the practice would he overcome to a very with the orrac
large extent．
Of late years at some of our factories an in jetor
is sused for eleverating the whes．During this eleva． tion the whey is heated to a high temperature
which has the effeect of keeping it sweet tonger Another plan is to have a stean pipe connected
with the whey tank，and after the whey is run off． with the whey tank，and after the whey is run off．
turn oon steam and heat it up to about toid degrees．
 preserve the whey in a sweeter condition and mak
tof more
mide aris from value negleet of patrons．The neglect of whey and thorought clean the cans as soon as the
hilk－drawer returns from the factory，would be



 One of the arguments often nadvanced aganinst dis．
osing of the whey at the factory is that posing of the whey at the factory y thar the cans
will
be harder to clean，ty the mik drying and sticking to the sides．of the cans，than if the sour Whey were carried home This can be overcom
White easily by having the milk．drawer put in a


 trite good that this stray to is on ore than chanterid have in injur ring the tin on the can．

## The Toronto Cheese Awards．

 sore of poinems to me proper to fix on a standand of quality upon as definite re basis as posible，
taking（as a amaximum of perfection）the
number


 Yalue of the points of quality but they compare
he degreas of merit in each competing exhibit，and make the score in accoraance with the resen liss
This can be done with greater accuracy and less This can be done with greater accuracy and
trouble by placing score labels on ench exhibt，as

 the correct ness of his awards．Permit me new
make
net

 soundness and keeping qualities he discloses the
fact that he has not full considereded what the states

 and perce，tibibe by taste＇s smell and palatee Finilish

 awarc was made to an exhibit which dian not possesi
sufficient tirmness and solidity，thounh many tuit

 on supposition that 1 ，being accalso the Ameri
 varieties of cheese made in Englana，Scotland an Canaada and although Canaatans give iode of thei
 as the tyep pyr everleine of fine Cheddar cheese
not until the Ind ustrial director at Torno not way and suceed in making their cheese show
hte
nen educational institute．by givin object lessons


 graves，and point out the ments one one and
 It was too much to gay that 1 had never seen
finer exhitition of the thes．
 disappear from the show boarts，and aliteare are
ais the exhilits of cattle and sheep




（Note．－No doubt，as a dealer，Mr．McAdam has handled a great quantity of States cheese，but，on
the admission of Americans themselves，it is，in several particulars，inferior to the Canadian pro duct．The wonderful sweep made by Canadian cheddars at the World＇s Fair，and their grow－ ing popularity in，England，shows tained，we are on the right track，and，as already intimated，we do not propose to be switched off by the setting up of any lower standards．The spirit of Mr．McAdam＇s letter，and a discourteons expression or two，disclose a weakness in his reply to the fair but perfectly and mature consideration，we felt in duty bound to publish regarding the Toronto Industrial cheese awards．We entertain the same opinion still，and find no fault with Mr．McAdam for adhering to part．We find was a correct judgmearty con currence of the best cheese experts of Canada．who examined the winning exhibits．It is not in the interest of Canadian dairying that a premium not best suited to our foreign trade，on which the whole industry rests．With regard to the divisions on the score card used，our view was based upon knowledge of the methods adopted by our best Canadian judges in examining cheese．As regard flavor and taste，there are not seven out of ten of ou expert cheese buyers taste，it．True，there is a dis tinction between the two，but in ninety－nine case out of a hundred，if the flavor of a cheese is al right，there will be nothing objectionable about th waste；while，on the other hand，if there is anything flavor whe the the should be included under that of flavor，and that it is not necessary points of quality we placed unde texture，we admit that there is a slight distinction between them，but submit that it is wholly un necessary to make so many divisions，made unde the one heading．It seems very difficult to us， however，to draw a dist cheese．If cheese is firm，it and firmness，in jade vice cerscl．It does appear a if Mr．Mc Adam，in order to carry out his theory of ten points of quality with a maximum of ten to each one，has had to create imaginary divisions so
as to make up the number．We entirely disagree with him when he states that texture is alone
determined by sight．We speak of＂silky＂ 0 or ＂rough＂texture in cheese speak，it is impossible
no tell＂whether a cheese possesses either of these qualities by sight alone．It can only be told by
taking a piece of cheese and squeezing or rubbin taking a piece of cheese and squeezing or rubbing
it between the fingers．Mr．McAdam states that the three first points of quality in cheese are
＂taste，Havor and richness，＂but he fails to recognize this in his score card．According to the
score card，they are all first points of quality．Style and neatness（to our minds，fifth points of quality） flavor and richness，which he states are the first McAdam＇s remarks，that the use of a score card is the proper method of judging cheese，but it is upon
the kind of score card used that we differ．The one ＂csed by him is，to our minds，＂complicated and similar to that used at the World＇s Fair，would enalle any judge to pass a correct judgment．
We would heartily endorse what he say
gard to giving object lesson by cutting up prize
cheese and explaining the different points in quality to exhibitors and others．This is something that the managers of our leading dairy exhibitions
should consider and endeavor to make practical．｜ A writer in Hoard＇s Dairyman thus eases him－ self on the tuberculosis question ：－＂In＇t it time
to stop boasting of our 19th Century civilization and progress？It＇s an age of lunatics．Specu－
lators and capitalists have gone mad for money， workingmen on stail in fly time sings to the ear of the patient milker nothing but tuberctiosis．What utter culosis out of the human race in the same manner the cow people are doing，who would be left？
Well，just enough to start a Noah in the task of re－ peopling the earth． one wit hout traces of tuberculosis，and yet very few
had died of it，or even heen seriously injured thereby． Why not use common sense．Kill the seriously more pure，fresh air；keep cleaner．Don＇t force
things quite so hard and fast in breeding and feed ing；and then let in plenty of God＇s great microbe tives could be cured if they and their fool friends
had a little sense，and would use it；but they
haven haven＇t，＂
friends．＂

Octobek :5, 1894

## Some Suggestions for Winter Creameries

 by J. A. ruddick, of the dairy COMMISSIONER'S STAFF.The indications are that there will be quite a large number of the cheese factories in Ontario and Quebec converted into creameries for the coming winter, and it is possible that some of our experience during the last three seasons may be of service to those who will have charge outter.
When the buttermaking is to be carried on in the ordinary cheesemaking room, it is usualy place on the floor, the same as for cheesemaking, and therefore on the same level as the separator. In fact, it is not often practical to have the vat elevated high enough to allow the milk to flow direct to the separator, and, such being the case some means m
proper height.
Three different plans have been tried, viz. :
pumping, dipping, and the ejector or steam jet pumping, dipping, and the ejector or intermediate vat of say 10 or 15 gals. capacity is used, and this is placed high enough s
taken from it. ejector plan best. A pump is very hard to keep clean; there is too much labor in-
volved in dipping the milk, and, besides, the feed is volved in dipping the milk, and, besides, the variable height of apt to be irregular, owing the in incermediate vat. A No. 2 . L. Ejector, made by the Penberthy Injector Company, of Windsor, Ont., will raise sufficient and by placing a any of the large-sized suparators, and pipe, just below the ejector, it can be regulated so as to give a uniform and steady supply. While lifting the milk it will
also raise the temperature 20 to 30 degrees, and 1 also raise the temperature 20 bo big advantage, as it conss away with the necessity for using a heater or
does
keping a large body of milk heated keeping a large body of milk heated a a hing going on. It is not a good plan to do all the heatgoing on. Treceiving vat when there is any quantity of milk, for it is apt to get a little old or stala, and
the flavor and keeping quality of the butter injured the flavor and keephen the ejector is used it is not necessary to heat the milk in the vat higher than
60 or $6 \overline{0}$ degrees and it will take no harm at that 60 or 65 degrees and it will take no temperature. The style of ejector named is so con
structed as to be easily disconnected, the inside parts drop out, and the whole thing can be parts anghly cleaned.
On account of the
on account of the dampness which is apt to pre vail of thes pulleys rather than wooden ones made
use of of pieces glued together. glue to soften and the pultey comes apabber belting than leather, for dampness is hard on leather belts. Rubber is the cheaper of the two, but care must be taken that will wear quickly in that case.
for it will wear quirkyy escape of steam should be avoided, for a very small leak,
create a lot of moisture in a room.
Of course, if the room is warm enough and properly ventilated, there will be no trouble wit
excessive dampness.

QUESTIONS AND ANSWERS.

 succeeding issue, if received at this their name a
Enquirers sust in ill eases attach the
in full, though not necessarily for publieation.

## Veterinary.

lamed from bruised frog.
H. Doak:-"I have an entire horse that has been lame since last winter in one forefoarged con-
a month ago it gathered and discharged
a a month ago it gathered to improve, but now
siderable matter, and seemed the foot projected on the ground ahead of him. If he
bruised the frog of foot would it make him lame?" [From the length of time that your horse has
been lame I am inclined to think that you have a bruised heel or festering corn, which has undermined the sole ang. Get a shoeing-smith to pare the sole and frog down to the sensitive structures, then dress with some oxide of zinc oiny matter that has soften the horn and anow and frog of foot free accum Meport direct if the treatment is successful.
exit.
DR. W. MoLE, M. R. C. V. S., Toronto, Ont.] RICKETS IN Young pig.
Arthor Simpson. "I have a pig mix months old which has nose. throat, gums, are swollen, and very tender, so that he cannot eat hard food; he is also lame in
all his legs, fore one's the most; he breathes hard and with the mouth open; in fairly good condition, eats soft food very well, but
Please inform me through yo
tronble, cause and remedy? trouble, cause and remedy from your description
I am inclined to think fro Rickets." due to an
hat vour pig is suffering from ".
bones generally are softened; the ends of the long
bones are enlarged, giving rise to the lameness; as bones are enithese alterations, the bones become de-
a result formed and their growth arrested. It ievoid of calproper feeding, to the use oterial), such as Indian
careous matter' or earthy mate
Give a mild aperient, say corn, etc. Treatment: Give a mild aperient, say
half-an-ounce of powdered jalap, placed in his food, then place a quantity of bone dust, ashes or crush milk
egg shells within reach. For diet, plenty of mixed with oatmeal, shorts, and pea neaa. A sman piece of unslaked lime plas.
day will be advantageous.
DR. WM. Mole, M. R. C. V. S.

## Miscellaneous

squealing hocs.
-"I have been feeding a lot of
Swineherd:--"I have been feeding a lot of
ogs that appear to do a remarkable amount of hogs that appear to do a remarkable an told that
squealing at meal time, and have been the 'poor feeders.' Is that this is a s
the case ?
[Our reader means by "poor feeders," that these pigs consume a great of gain. A good many have that impression regarding "squealers," but it is no necessarily correct. As practical and carefu
an investigator as Prof. Henry, of the Wisconan investigator as
sin Agricultural Experiment Station, who has gone very exhaustively into the subject of hog feeding
makes this in one of his official reports upon the very point raised by our correspondent "We have found that our best gains came from hogs so anxious show their greedy appetit
they, would shat have our readers found?
bye for green manuring
Jethro JULL:-"1. Would you please inform your numerous readers if there is any difference between foal and spantage in the spring with clover and
sowed to ad
leguminous crops for ploughing down ; or would it leguminous crops for ploughing down; or would it
be advisable to sow rye in the fall and sow vetches be advisable to sow rye in the fall, and sow vetches
or clover on top of same in spring, harrowed in; or or clover on top of same in spring, harrowed in; or
if rye better be sowed by itself, and at what time; for if sown in the fall vetches will not be sufficientery advanced
properties?
properties? would you please inform me respecting a cheap Babcock Tester? Wherever fall rye will grow well it is preferable to the spring sort for any purpose, as its longer season of growth induces a much better branched and deeper root than spring grain can obtain, which
makes a stronger plant. It should have been sown before Oct. 1st, but will do fairly well sown as late as Oct. 15 th in a favorable season. If sown thin y or winter killed to any extent, a light seedng a fine eguminous crop, as vecches, shater. Clover would com make growth enough to plough under along
noth rye. We recommend rye for ploughing under with rye. We recommend rye for ploughing under
for no other reason than to improve the mechanical for no other reason soil, and to smother out weeds, as it is not an atmospheric feeder, and, therefore, jus returns to the soin wade use of by feeding off by sheep or cattle in the spring, and then the land may be seeded with peas or vetches, to be ploughe be improved, the crop should be ploughed under There is no more essential difference between fall and spr
2. A good Babcock Tester for farm use can b
obtained all complete, with half a gallon of acid, fo about $\$ 6$.)
James Humple fertioli-"Will an orchard Northern Spy apples bear protitably alone, or is it with other varieties?
[It is not advisable to plant an orchard o NorthernSpy, or any other one variety, alone. Ther
are a number of varieties of apples, of which the NorthernSpy is one, that are more or less self-sterile that is, their pollen does not properly fertilize thei
own blossoms, although it may be quite potent on the blossoms of some other variety. Recent experiments, carried on by the united state Department of Agriculture, have clear pears, and
this to be the case with many varieties of even those varieties whit, and more of it, when
found to bear larger fruit
their blossoms were fertilized with pollen from their bossoms were
some other variety.
It has long been known that nature abhors self cations of the flower to prevent it and secure cross
certilization. In planting an orchard fertilization. In planting an orchard, then, we
should avoid planting a large number of any one
variety in a block, particularly such varieties as the variety in Spy, Gravenstein, Roxbury Ruset, etc
Norther Spy
which are known to be more or less self.sterife. fact has been disregar fact has be grafting
rectified by
orchard with some
about the same time: variety which booms that a few
help in the to another.


APIARY
Preparing for Winter
W. D. Dickson, Little Rideau:-" 1. Why did my bees not work a prominent Ontario beekeer ? I bought them from a prominent ant right. Neither so 1 presume the
original or the swarm made a drop of honey in the sections. What shall I do next year. "'.. My box has a bottom nailed fast to the body
of the hive. How shall I do when the time comes to pack away for winter? I intend to put them in an outhouse, where it is cold, but no snow can reach
them. This is my first season with bees. How shall $I$ do so as to place the entrance clear, and how much of an entrance shall I leave for the bees o come out of? Shall I pack the sawdust clear over
op as well as sides, or shall I leave some kind of a ventilator through lid of hive? I intend to place them (the hives) side by side in a long box and completely surround them
eaving the entrance clear
' 3 . When shall I rem
$\qquad$ [lst. I take it the reason your bees did not work in sections was because the yield of honey was not coloni enough to force the same as yours, and many that did store in the sections have to be fed this all to give them stores enough for winter. I don't hink there was any fault in the bees.
2nd. Your hives are in right trim to pack for winter with the bottoms nailed on. If there are no cleats fastened on to the under part of bottom, would lay a piece of stick, about one inch thick, at either end of the bottom board to raise it up some from the bottom of the box $n$ dampness that might pass through the bottom of the case to come in contact with the hive. In placing the hive in the case, shove it far enough to front of case so the projection of bottom board touches the front of ase. Now cut a hole, six inches long by one inch
in depth, in the front of case and have the bottom of the hole come on a level with the upper surface of bottom board; this is for the bees to fly in and
out of. Next, take two small pieces of wood, one by one and a-half inches, and long enough to reach
from the case to the hive front. Take another from the case the wide as the former pieces are long and pight inches long; nail the two shorter pieces on the
ends of the long piece: slip this bridge down in ends of the long piece; slip this bridge down in
front of the hive, between the hive and front of cant of the hive, will see, forms a perfect entrance
case. This, youd protects the entrance of the hive
for the bees and from becoming choked with the packing. After
having seen that the quilt is all right and covers having seen that the quilt is aly reote are then ready for the packing. I never had very good success packing
with sawdust alone, and I would advise you not to use it thus; it packs too closely and is one of
the worst packings to draw and hold dampness. If I were obliged to use sawdust I would mix it with plain shavings, say half and haly; the shavings moisture from the bees to pass off more readily. The best packing is forest leaves. If you can get
hold of plenty of these, use them in preference to sawdust. Pack all around the sides of hive, and over the top, leaving off the cover of hives, but
see that the cover of case is in good order. Let me protest emphatically against putting bees in an outhouse. It is one of the worst places. Pack them in their cases and leave them
out in the open air where the sun can shine on
and them, and you will have better success. As an
tilustration, I will give you an experience of one of thustration, I will give you an experience of one of
my neighbors last winter. He came into my shop my night the fore part of the winter, and I asked him
during he had his bees in good shape for winter? He
if he di he had his bees in good shape for winter? He
d said he had, as they were packed and put away in
his driving-shed. Well, said, Mr. H., you had his driving-shed. Well, said put them outside. Well, he could not see but that they were better in there
than out in the cold. However, he concluded he than out in the cold. However, he concluded he kept in. Suffice col to say that the two he left out
in the cold to die, were the only ones he had alive this spring. Almost any shed, unless it is made
frost-proof, is colder than it is outside on sunshiny days, and I will show you how to prove it nex and pack it the same as you would a colony of bees. Now, place it inside of a driving-shed, or any out
building; hang a thermometer in it. Do the same
with another hive and lave it sun can shine on it. Take the readings of each hermometer once every day through the wince
and you will be surprised to see the difference
the readings of the two when added he readings of the two when added up in the spring.
3rever like moving bees at any time of the year, unless I am wintering in the cellar, then I
irould put them in about the middle of November
1, int if them on the going ta tands as in summer, and have a case
for each hive, and pack them separately. Then, I ha e uo bonthre moving hives and no bees getting the hives, it is usually the case when hives are
hoing moved to different places to be prepared for
winter. Hif if you must move them, do it as late in
the ser the seasin as you can before snow comes. MYERS.

## POULTRY

## Poultry on the Farm．

My mother tells how the fowls on her father，
 hrook in summer，and went without waterin winter．
They usually stoie their nests suder sheds or in the pawpuw grove；consequently she was occasionally





 Siftefive to ninety－eight mililion dollars worth in

the ten vears preceding 1889 ，over three－quarters of | the ten |
| :---: |
| a bilion |

 me he didn＇t want to talk about anything less hare about puyltry and do beter．People begin to realize the value of having their next meal running
around on its own legs，taking care of itself till around on its own legs，taking care of itself til
wanted，as contrasted with a beef or swine carcass wanted，as contrast be taken by the neighbors or pickled．The older a country and the more it
economy of space，the more does poultry come for economy of space，the more does pouth to replace larger stock，tit itue that even ward to replace larger stock titseif is a great poultry raising centre
The locatio
The location of hen－houses was a popular subjec
One lady said her father dug down on the level，to form a warm，cellar－like house，but one water had stood two feet deep in it，and a pet
Cochin did drown．The experience with my ow Cochin did drown．That I understood her case．My first one was built right on level，at edge of a barn－ yard．Though all above ground，it was troubledad
certain times by water leaking in，till we banked pretty high－so high，indeed，as to house had its location graded up before the building was put there， and the latter is perfectly free fram ap a a knoll high enough that the bottom of hole，dug into this knond could still have been above generalsurface of hainfall pron just a knoll is comparatively little and runs off quickly．Where，however，there is hard pan not far below the sury inproved lot，with cemented house，on a previoussy in has water，that cannot sink through that hard pan down into the earth，collect and then filter even through its cement． supposed a＂dug－out in and Wert，and was taken to see three successful places．They were in sandy， apparently unstratified knolls，one so the purpose． I noticed the top of each cave or＂dug－out＂was raised above remainder of its knoll，and gradens， like a tent or hip－roof，to slope in all directions．
One had close on each side of house，a wooden One had cose from top to bottom of hill．Unfor－ tunately，I could not see any of those said to be in complaine One failure was in a river bank．The
dry soils．
top of bank probably went off on a level with surrounding country．Such a location or a a lhere hill would get full benefit of rainfal，a an run along
were impervious strata，the water would were impervious out on the sides．I found every
them and come one who had tried his barn．commeng that plan，as does Mr． his barn，comm Manager，Central Experimental Farm，Ottawa．If a shed，for a scratching place，is thrown out from barn，and is built quiteys recom－ summer the movable rout there，and an airy roost－ ing room thus serured，so near noel strange．The winter that the biddies would not easily be both lay－ room proper，ing department．I found a man and his daughter very successful with poultry in one corner of a basement une hens worked in bedding south manure thrown out，and did well without a scratching shed．This beautiful tas the hay was
ment made dry by tile drainage．As did not soil it，though given free rat fer may soi basement stabling．If feared tween hen－house corror and se she got no egss last winter，except row on
me










 hen minose were esten to the green，and the core
hand parinys of our pie apples，chopped up．dis
and
 appeared
antited eat：
not

Water Trough for Poultry－house by A．T．©ILBERT
In designing a poultry－house，considerable thought should be given to the water supply，an its arrangement for the convens of the apartment they occupy．The accompanying illustration will

give the readers of the Farmer＇s Advocate，who contemplate building a poultry－house，an idea of
how to construct and arrange the same so that how fowls may drink when inclosed in either roost－ ing or feeding room．
In reference to the sketch submitted，A repre－ sents a part of partition of poultry－house which room ；B is water trough，with galvanized sheet－ iron lining．For 50 fowls，the trough should con－ tain about 900 cubic inches of water；consequently， its inside measurement for the support of trough， and are notched out 4 －inch，as shown，to keep the trough in a central position；their size shouriled to E and partition A．D are perches for fowls to
mount when they desire to drink，and are cut to proper lengths and nailed to C，as shown．E repre－ sents four pieces of $2 x+$ nch the partition，where
long，and nailed properly to
shown；they are merely for the support of pieces shown；they are merely to both sides of partition
C．F are pieces nailed to
ver trough，as shown，and should be cut $1 \times 6 \times+1)$ over trough，an which is represented on one side of the
That whe partition is an exact counterpart of what is on the other side．
The trough should be constructed out of good dry pine，and then taken to a local tinsmith and then press it into position，nailing the same to top my poultry－house are about the size of the and the smith＇s charges were 50 cents each．
The top of trough should be 18 inches from the floor，thus preventing the busy fowls，in their
search for food，from scratching litter or dirt into search for food，from scratching low space enough
it．Care should be taken to allow for removing trough from its seat，so that it may
be cleaned，as more or less dirt will accumulate in time．

## Something About Ducks．

The breeding ducks that are to be kept over require a comfortable sheter quises should always be kept well supplied with clean bedding．Since the early market is best，it is imperative that the breed laying，feed well．A well－fed，well－cared－for duc laying，
will begin laying early in February，or even
January while one which is chiefly skin and feather wand not begin till late in March or in A pril．For winter feeding，ground grain is preferred and stirred
Smaall potatoes boiled soft，mashed， thick with coarse meal，makes one of the best of
feeds．Duck require plenty of gravel in summer； in winter，pounded oyster sheils are mixed and it
their soft food，and they eat it with avidit y is good for them．Yhe ，indeed，they are not superior
substitute forgravel，
to it It is hardly possible to give too much．For green food cabbage is the hest，they should have
feed of it at least once a week．Turnips，chopped moderately fine，are next in value，but
cabbage．Green food，gravel or oyster shels，ground grain，and a comfortable house，are，then，the essen－
tials to winter care of ducks．Their supper may
lity tials to winter care or
consist of whole grain． number of male fowls that must be kept over．one
drake to three ducks being the usual rule．Breed－ drake to three ducks be allowed to get too old，as the
ing stock should not


The feathers of the duck are not ay valuable and
hose of the goose，and since the torty－pound
 Tress．neither gese or duck keathers have peen
great request．
Nosest treeders
 Sometimes the down is talen from tef tor winter protection． tought al wass to be lef botw whiter broett in small
 Table to diease，and there is not the rrow ding for hungry．Avoid frig bitening them．They hudde
hu a heap when scarret，piling on top of each other， nd as they are heany fowis，the tresult，though not
 with the head down，for they are asily inj inures， staking on flesh．
 Ducks should never be killed till the crops are empty which will be in eighteen or twenty hours
after the last feed．The French method or killing
The bye stabbing in the mouth is prefered by some
oiners cut the throat，instanty suspending the owi others cut the throat，instanty yuspening tre tow
with the head down to drait the bood． ing is the only practice with ducks，and is the best With ducks，as with all other fowld tof be raised

 gives a large carcase
 Susines，mains aefore＂．going in for ducks．＂，it is parnersi Ant dint tofn ond out whether you will have a market at paying priees after your duks
arown
Pouttry
literature ${ }^{\text {rog}}$ ing．Ten thousand duckings，weighing tive pound ang．，and sold at twenty cents a pound，looks a




 sthirty cents a pound ta figure often named in connection with the output of theese big breeding
 Who can watch the marke with tooth eyes In
Boton，in July，ducks were
quoted at 14 cents re

 timer yuick maturity，good watt hig money＂－only moderate profts th the ordinary grower．Hod
 papers．is going
best of $m y$ beliet

## Eggs in a Tree．

A hen may live in the trife tops，but what about

 conditions of spring，for upon There is a class of educated and intellifent poultrymen，who affirm that the roosting of hens in the tree－tops if not alwws an unwise system，and they even go so far | as to state that they have known fows that tere |
| :--- |
| left outbide to be tree from disease，when those that | Were given the emot comportabie quarters，were

These facts，however，do not con－
 vince the progressiver farmer fowls tain，by yeveria


 on the is．and alang ghe somats that tave heome
it is also a fact that animats
have loot in




 severity orwitur has，tasseat bins than end iniees | good reportof herself until late in the fall，she may |
| :--- |
| prove proftubte，because her ability to forage |


tessit may be considered that one of the causes of disease in pure．bred flocks is the procuring of of owls
from elsewhere As farmers who allow hheir bess




 however，have hen realizd adrom toc
received the most care and attention．

Остовен 1., 1894

## VETERINARY

Domestic Veterinary Treatment of the Animals of the Farm.
Having described the four stomachs of the cow, and large intestines. The small intestines are the duodenum, the jejunum and the ileum; the large
are divided into the croum, the colon and the are divided into the ceccum, the colon and the
rectum. This division is purely artificial, and for our purpose a be bowels. From recent experiments and recorded observations, it has been proved beyond all doubt that feeding cattle twice a day is
the best method, and, when we look at the anatomical construction of the animal, it is only to be expected that this method would be the most ex pedient. The cow's stomach, being constructed on requires a different method of treatment as to its supply of food; it receives very little preparation previous to being conveyed into the rumen, and when thicial feeding, and is so in natural, the animal generally lies down on its broad sternum, or chest To answer an enquiry as to why the calf's fourth To answer an enquiry as
stomach is so largely developed, we must make a
little degression from the order of description and little degression from the order of description and
give the explanation. give the explanation. digestive system, or rather the fourth stomach,
which is the only one required whilst the young animal feeds on milk derived from its mother. Perhaps there are few dittle understood the farmer, and for which there are so many absurd nostrums employed as the disease known as "White Scour in Calves." It is the principal reasons why calf food, calf meal, and other artificial foods have met with so much favor amongst dairymen. This disease cain natural food, "earing calves taken from their ne pail," as it is termed, or, rather, prevented from obtaining the rich first milk from the newly-calved cow; this milk contains a watura acts as a natural purge to the
beastings, which
young animal. Hence, constipation is first of all young animal. Hence, constipation is tirst of all
set up, followed by an acid secretion from the lining membrane of the intestines, which coagulates the curd or cheesy part remaining as a foreign agent in the intestines, and the fluid or whey part coming that the principal function of the fourth stomach of the calf is for the purpose of secreting an acid material termed "rennet," this effecting a change in
the milk necessary to digestion in the formation of the milk necessary to digestion in the formation of chle, Which can be absorbed by the ymphatics
slowly. The milk, instead of beingchanged pradually
and formed into very fine curds or flakes, is coaguand formed into very fine curds or flakes, is coagu-
lated quickly, and large indigestible curds are lated quickly, and large indigestible curds are
formed. This produces almost all the diseases of carmed. and when the disorder has arrived at a cer-
cain stage, the muscles of the neck and thigh are tain stage, the muscles of the neck and thigh are
affected with spasms, and give rise to the descripaffected with spasms, white scour, known amongst
tion known as cords, wh
veterinary surge as gastro enteritis of calvis. However desirable it is to cure the above-men tioned complaint, to prevent it is of still more im-
portance, and obviously points to the fact, "do not portance, the calf of the first milk from a newly calved cow; "if you do, expect the troubled with this complaint and death of all your calves. One
of the best domestic remedies is lime water, which may be given at the rate of about two wineglassfuls per day, or, say, a tablespoonful at each feeding
this will correct the acidity, as each successive sup ply of milk, even from a newly-c.
lates and acts as a fresh irritant.
Another plan which has been successful in our
lands, is to substitute half the (yuantity of milk $l \begin{aligned} & \text { lands, is to substitute } \\ & \text { with linseed gruel, which, by acting as a gentle }\end{aligned}$ laxative, will prevent the accumulation of the coagugenerally ends in rapid emaciation and death. There are a few other remedies, but, as they come under
the domain of the veterinary surgeon, cannot wel be inserted here.

Impaction of the food or roots in the esophagu rence on a dairy farm, and is most frequently seen rence animals are fed on roots unpulped. Since the introduction of turnip cutters it is not so common
as formerly. When once an animal has choked he as formerly. is always liable to a return of the accident. Is fre quently caused by fright, especially by dogs barking or from shouts and blows of the attendant. Potas
t wes seenn more prone to lodge in the esphagus
than any of the roots, and when the obstruction is low down we find that part above distended with softened food. The symptoms vary, and if the
olstruction is in the lower portion of the chest, it is ol,struction is in the lower portion of the chest, it
ditlicult to diannose: but poking out of the head,
innghing or blasting, with a discharge of viscid
frothe mouth, will be generalt
 Drathing, sometimes attended with a moan: the
neathing becomes more difficult as the tympany
on -whing of the panch increases. This symptonin cubt, a dren
water will cause the gullet to be distended. The
diagnosis is complete, if on passing the probang an obstruction is ancountered Careful manipulation of the whole of the gullet, from the throat to the chest, should be made, and if it can be pressed upward and
lodged in the pharynx itself, a small hand introduced into the mouth may extract it without much
difficulty. The operation will be assisted by giving difficulty. The operation will be assisted by giving
the animal a little linseed oil. If manipulation by the hand is unattended with success, and the symptoms denote danger, no time should be lost in
passing the probang, which should he from six to passing the probang, which should se ped piece o
seven feet long, and have a cup-shape
metal at the end. The incautious use of whip stocks, rope, fork handles, etc., are always attende by danger. More than one case has come under hav
notice of injury from these instruments. We have seen a good domestic probang manufactured out of
india rubber hose, filled with cane or rope, about one inch being the best size. The mouth is to be kept open by a gag of wood, and the head slightly
raised and extended to prevent biting the proliang It should be well oiled or smeared with lard before being introduced. On passing it into the mouth into the esophagus where the obstruction is found, which is indicated by feeling the probang stop
against some solid body. Equal and gently increas ing pressure should be made, when, in the majority of cases, the root will give way before the probang enters the chest into the rumen. This may be of a great quantity of gas from the paunch. Should, however, it not give way at once, the pressure may be discontinued for a few seconds to allow of the muscular tissues to regain their tone, and
renewed, and so on, until success is attained.
A writer's lot is not an easy one, to describe
all the peculiarities that may be met with in all the peculiarities that may be met with in ter, dry meal ; in fact, almost anything that a cow will take, and she takes some very curious articles of attire: stockings, sheets and shirts, are somealso, other articles of underwear, etc. We might as well here say that, in severe cases, the owner
should not trust to his own judgment, but employ should not trust to his own judgment, but employ a propery qualified man who has
An enquiry often launched at a veterinary sur-
geon is: "My cow has lost her cud. What shall I do to make her find it? I have tried a red herring, a pound of pork, an old slipper, a dog's
tail, an otter's foot. I have given her slippery elm tail, an otter's foot. I have given her slippery elm
and cornmeal, and now I don't know what to do." In fact, nothing is too absurd, or outrageous, to make a cow find her cud. Only those who have
been in close connection with farmers, know of the been in close connection with farmers, know of the
many absurb nostrums that have been tried. Our only regret at the present moment is that we have
kept no record. An ounce of carpet tacks seems the kept no record. An ounce of carpet tacks seems the only climax we can recall at present was we well remember : and my pupil at the time suggested to the man that "a looking-glass and
night-light would very likely find that cud." But to return to our subject. When a cow ceases to chew
the cud, the cud, or ruminate, as we call it, it
disease, but rarelv a disease in itself,
Most freguently symptomatic of impaction of
the third stomach, or an accumulation of dry fibrous material between the leaves; the hard, dry, fibrous stalks of Indian corn that have lain in the fields all the fall, and fed unchopped, will often give rise to
this state of affairs. This impaction of the onasum is known in different parts of the country by a bound in the famble crop; although many have
long lost their application. for which we have much long lost their a.
to be thankful.
A nother form of the loss of cud is sometimes seen
as a result of the animal having been paunched that is, the animal's bowels are stabbed with a
knife to let out the gas in hoven or blowu from knife to let out After this operation, when per
gorging clover. Af
formed by unskilled hands, adhesion of the serous coats of the ahdomen takes place, the consequence
of inflammation, or, in other words, the stomach of inflammation, or, sticks to the sides, and rumation is in consegmence more or less imperfect. This operationsen
always be entrusted to a veterinarian to insert th
trocar and canula and so prevent this injury. It i trocar and canula and so prevent this when adhesion has taken place, for only
imperative when can this injury be remedied by an operation, and results.
A little comedy was once
at a farm house, as follows
"Ho, Dick, go over to Mr. Bleendenfust and ask her cud.
Enter Mr. B. (picking up the end of onw tail):
Ah! Hum! (iood job vou sent for me She rot wolf tail, lapping the horns No wonder she
sick. She got ©oller orn. Feted me at mimbe
uick
 Yes : give h
be all right.
Te all right.
Two days elap
return to her cud
"I What say: sen
will do something.

Doc. arrives, and sloughing of the tail has comnenced a discharge of blood drom nostrils : sympa
hetic fever sets in, and cow dies. " Doc. did not do anythinganyway; only charged " Doc.
me $\$ .00 . "$
What What we say is : send for the surgeon at the arliest possible moment; let him earn his fee directions, and all these cases make a good recovery when treated early.
Tympanitis, hoven or blown will also give rise to
he symptoms, and may be described as indigestion and distension of the rumen with gaseous fluid The cause seems to be due to the suspension of the natural function of digestion and peristatic move vegetable food. We meet with it more frequentl egetable the months when first turned on to gras after stall-feeding during the domer. powdered mustard, which may be given in on ounce doses until relief is afforded: whilst it is al ways to be recommended to from the nearest practi couple of good dren that farmers cannot combine successfully a purgative that is absolutely reliable. This may be obtained from ready-prepared

> Carminative Tincture....
Aloes Compound Tincture
> Ginger Tincture..
> Water
> To this add common sait.......... 4 pis.
Water

To be given in a quart of gruel, mixed together, and We once heard a tale told of a Western farmer who had insured his live stock agains. Losing a number of his cattle from blasting on new clover, made claim on the company for compensation, a" The insurance company replied they thought so too but that they had a saving clause which provided against windstorms generated inside the animale but," "gol darn such a windstorm company," etc. but, "gol darn such a windstorm company," et
etc., only faintly expressed the farmer's disgust.

## MISCELLANEOUS.

## Western Fair Prize List.

BLOOD HORSES REGISTERED) upwards

 SADDLE HORSES AND HUNTERS-Saddle Horses,
Gelding or Mare 1,2 and A, A Beck Sadde Horsee, Ladies,
ridden by lady-1, 2 and 3 A Beck. Hunter (heary weight), up in front of rand stand-1, 2 and 3 A Beck. Hunter (light
 COB HORSES - Pair of Cobs in harness, Geldings or Mares,
under $15 \pm$ hands and not leess than 141 hands. must be stoully built and have style and good action- 1 A Beck.
COACH HoRsES Stallion, ans age- 1 Dow $\&$ Porter, St













 -


THE FARMER'S ADVOCAIE















 breeding pens.

 TUREEY TUREEYS, DUCKS AND GEESE

















 A Axtell. DAIRY PRUDUCTS AND UTENSLLS.
CHEESE-l Pest factory, colored, not less than













## Ottawa Exhibition Prize List

 Otawa Ehibition Prize ist.



## Does Mulching Retard Maturity of Fruits ?

 Prof. L. H. Bailey, of Cornell University, attera series of exhausted experiments in this inie, and also atter taking the evidence of a number of the
most tuccessful horticulturists, publishes the following summary

1. The early bloom of frnit plants depends very largely upon the appropriation of food stored in tho
twiss, and it it inore or tess indenendent of root
action. This is proved both by direct experiment action. This is proved both by direct
and by study of the physiology of plants 2. It must follow, then, that the temperature of
the twig or branch must be reduced if its vegetation is to be much retarded; or. in other words, the top of ine plant, as well as the soil, must be mulched, and in practice this is possible only with strawberries awn
other very low plants, or those which are laid down other very
during winter
during winter.
3 There is danger of injuring plants by heavy
mulch which is mulch which is allowed to remain late in spring:
If it is desired to retard lowers or fruit by mulat.
if th dest ing, the practeflly watched.
the ripening of fruit, by mulching, from two days weeks: but a week's delay is usually about We give the evididence of of Mr. W. W. Hilborn,
of leanington, Ontario, in regard to this matter:-
 Them a few days. I mulch several acres every year
and would not grow them without. I put free
and covering in the fall as soon as the ground freezes,
atout two inches deep, and place most of the
covering (which is usually wheat or rye straw) covering , iwhich is usually wheat or rye strawh
hetwern the rows of plants, putt ing just enough
wut





DEACON BATES' AWAKENING.
storr OF FARM life:
Mrs Bradies had come "पto berkshire with her husband
 Through the halif open bind she recognized one of them











 Int was not until the was seated at the tee. table in the the col ary wite. Mrse rates dia not look in the least like the buss


 Inc she watched the treadmill round of ski mining milk, oukhn






 open this cosed heart as at atean of surprivie thashed tor an






























 the Wouse sine the tionst yeamoro of their married lite had "Wan'










































 stroked hor hair

## Only Poachers in Disguise.

 An amusing incident occurred lately at a Scotch atient, who had received an injury to his head n an affray with poachers, when employed as gamekeeper, was employed doing odd jows on thap-estate outside the lodge gates. The office of chap ain to the asylum having become vacant, ahout attend before the Committee of Management on a certain day and hour.
Sandys delusion at occasional times was that he was stit iookfog the fit, unfortunately, came upon him at the nime the clerical candidates were boldly advancing
tion the road leading to the asylum. Sandy im alond the rood leading to
mediately seized a big stick and advanced to meet them, and, after several parleys and remonstrances,
he made them beat an ignominious retreat, waving the stick in a threatening attitude, and threatening dire vengeance if they returned.
In the meantime the committee postponed the business, owing ty the unaccountaife delay,
matters were only explained after the lapse of four hours, when the reverend gentlemen returned to the asylum escorted by a poses or couny podicenen
Poor Siand $\bar{y}$ 's perambulations were curtailed for the future, but he took an inveterate hatred to the
cloth "poachers in disguise every one of them! "
choth, and dechares the this day that they

Catch Words.
Nearly every body is familiar with some of the many catch-words with which he toten
abounds, but these three have not often under our notice, "Reeking," "Desiccated,
your friends what they understand by them. your "Kecking!"" one will say. "Why, reeking means dripping with moisture, soaked with wet. Another will say that it means "slippery, slimy
as with fillh.". Reeking with filth. Having a as
pungent, unpleasant odor.
Note Note his surprise when you tell him that "reek can reek. When a horse reeks with moisture, it is because
writes:

No Hame did thash or fair blue. reek
That is the surest catch-word of the three. "Des
cculet is pretty good though. Nine out of ever ten will instantly say that the word means, "' 'Chopped up in little bits." In this word, as in "reeking, the
urocess of change frons the real meaning can be process of change from the real meaning can bee
traced. Anything very wet would reek frosty weather, so the wetnes
tretty much the only article in common use
Po which the adjective "desiccated is applied, is cocoanut prepared for use in cakes and pies. It is chopped up in small bits. But it is chopped up
that it might be thoroughly dried, and ". 'toroughly dried" is the only proper meaning. "Lurid" is a word alitie beter known. Ask a manan what but the chances are that he will say "red, Haming orange,
or bright yellow." of course, Iurid means moky
 ing smoke is lurid lurid and livid are almost
synonymous. "Lurid flames" are flames almost

A juge, joking a younk lawyer, said .If you
and were to be turned into a horse or an ass, and were you prefer to be:" "The ass, to be
which would yed
wire, renlied the awyer. "ive heard of an ass sure." replied the lawyer. "Ive heard of an ass
being made a judge, but a horse never." Here is a story which Baron Dowse, the cele-
brated Irish judge, once told : assizes. On the first day, when the jury came in, assizes. On the irst day
the officer of the court said : jury, ye'll take yer


Остовек 源 1894

MINNIE MAY'S DEPARTMENT My Dear Nieces:-
The approach of winter leads us to inspect our
wardrobes with a view to ascertaining our needs Wardrobes with a view, to ascertaining our needs
for the coming season, and the prevailing hard
times will render us more tontent with times will render us more content with the possibili-
ties of making over whatever is already contained therein. It is really wonderful how much can be done by a litttle care and ingenuity, and how garments, which are now hopelessiy out of date,
may be evolved into those which will give to the
wearer the comforting assurance that she is well wearer the comforting assurance that she is well
and suitably dressed. By "well dressed" I do not mean the wearing of expensive clothes-the simplee day life. But the fact of their being simple, or even made. over garments, is no reason why they
should not be pretty and attractive, and a few should not be pretty and attractive, and a few
hints and suggestions in this respect may be found hints an
useful.
Begin by looking through the trunks, hoxes,
closets and burean drawers, and collect all of the garments "left over" and trimmings on hand bilities, the advisability of dyeing, turning, com bining, etc., which will have to be bone through before the new garments will be developed.
There are several good manufacturers of dye
who sell their goods at ten cents a package, but who sell their goods at ten cents a package, bu brand of dye is more satisfactory than all the others in black, while another excels in red, etc. You can
find out these details from your druggist. Be sure find out these details srom your druggist. be sur surche Divide it in equal proportions, half and half. Then divide your goods in the same way, testing your
accuracy for weighing the material. If the same


Fig. 1.
quantity of water is used, and the goods remain in
the same length of time, they will all be exactly the the same length of time, they will all be exactly the
same shade. One reason why some dyeing is so fresame shade. ${ }^{\text {quently }}$ a failure, is that it is done in such a careless manner, resulting in as many shades as there are pieces. Fix your dye, then take a sample and time
its immersion by the clock. When it has arrived its the proper depth, you can dye the goods axactly like it by proceeding the way I Ihave
direct youn In makingover, dyeing is very useful
din directed you. In making over, dyeing is very useful
in bringing into harmony things that could not in bringing into harmony things that could not
possibly have been used together if left in their possibly have
normal colors.
To renovate clothing, first remove all dust with
whisk broom. Spots may be taken out of dark a whisk broom. Spots may be taken out or dark
goods with a hand-brush dipped in equal parts of ammonia, alcohol and water. This will brighten as well as cleanse. If the goods are very oach soiled,
it is better to wash in water with soap bark, and it is better to wash in water with soap hark, and
rinse well: press on the wrong side between newspapers when nearly dry.
Benzine isuseful in renovating grease spots. These
may be removed from silk by a soft flannel, from may be removed from sil.
velvet with a fine brush.
Here is a formula for a cleaning fluid for general ase in renovating woolen clothng: One pint of deodorized drachm alcohol, and a little cologne. It
 mixture is $n$
for a quart.
Shining places can be removed from black cloth
or silk by sponging with cider vinegar. Dry in the or sade siowly and do not press.
shade
and The creann cashmere dress which has done duty
for two summers can be colored a pretty shade and Made into a waist for afternoon or evening wear.



Fig. 2.
have their seasonable time and place in which to
be worn, and afford many pleasing variations o costume.
In Fig. . 1 we have quite a striking arrangement wear The yoke, collar and corslet are of the velvet, with a fall of creamy lace from the lower edges of both yoke and corslet. Bands of ribbon
velvet, three inches wide, encircle the fitted lower sleeve. The same is arranged in a $V$ pointing upward between the yoke and corslet, with rows running parallel to this on either side that reach from he yoke to the under-arm seam. The back has four
bands of velvet close together at the waist line and radiating to the yoke.
Black satin or vel
Black satin or velvet, or, in fact, any color ii
these or in moire, are effective on plain colors for such a bodice The lace may be omitted and the result will still be pleasing
This same waist may be made up in different
ways to suit the taste of the wearer. A very pretty one, cut from the same pattern, is made without one, cut from the same pattern, is made without
the velvet, and has a yoke and belt of pica lace, with bands of insertion lace to match on the sleeves.
The lace is black, and over white satin of a very open pattern, the waist being of $\tan$ cloth. The yoke is outlined with black satin ribbon, drawn in and bunched up at intervals. Rosettes of the same finish the opening of the cors.
each band of lace on the sleeves.
The ever popular leg-o'-mutton and balloon
sleeves still continue in favor, but many varieties sleeves still continue in favor, but many varietie
are shown for dressy waists in slashed effects, or are shown for dressy waists in slashed effects, or
daintily trimmed with lace and rosettes of ribbon The new six-gored skirt, given in Fig. 2 , will be found suitable for wearing with a waist of different of a front gore, first and second side gores and the of a front gore, first and second side gores and the
back gore. The fold of the goods is used for the centre of the front and back goores, while the side
gores are cut with the front edges on a straight gores are cut with the front edges on a straight
edge of the goods. An interlining of canvas or edge of the goods. An interlining of canvas or
grass.cloth should be sewn to the skirt lining,
eighteen inches deep. After the inner lining is eighteen inches deep. After the inner lining is
sewn to the lining, the material is basted to the sewn to the lining, the material is basted to the
gores and the seams closed. A binding finishes
the lower edge, and the upper edge has the centre the lower edge, and the upper edge has the centre
back gathered on each side of the opening. A belt of the required size is made and the skirt sewn to
it, allowing a little fulness across the front and sides in place of the usual darts. Moire, or satin sibbon running down the seams, on each side of the
centre, finishing below the knee with a rosette centre, finishing below the knee with a rosette,
forms a pretty trimming; the other seams being treated in like mann
ribbon so far down.
Capes both far autumn and winter, and the design for girl's cape, given in Fig. 3, will be found a good one style so popular for ladies.
If the storm cape is
and hood, omitting the smaller cape. By omittip the hood, you have the double cape with the turn over collar. Two straps of the goods are made an
tacked to the shoulder darts ; these are crosse over the bust and fastened to the waist at the back. These straps aid in keeping the cape in position

over the shoulders when not buttoned. Striped or
plain serge lining is used for this cape, also surah and satin, and when a pretty, contrasting color is selected, the lining of the capes and hood makes quite an important feature in its construction.
Those who intend buying new dresses will probably be interested in knowing what is shown probably beble goods. Camel's hair fabrics come in
in fashionable
stripes, solid and blended colors, and one variety stripes, solid and blended colors, liked.
shows a heavy nap, aned the way for a return of the Hop-sacking opened the way for a return of the
basket and canvas weaves, in close and loose mesh.
Serges and diagonals have a heavy twill, and, Serges and diagonals have a heavy twill, and,
though the solid color is offered, as a matter of course, the two-toned color combination grows in favor. Those in gold and dark brown, navy blue
and gold, or dark green and navy blue are attractive.
There seems to be no end to the variety of wool fabrics, and while some are very expensive, pro-
portionally, all are reasonable. Whip-cords, cheviots and tweeds commend themselves by their serviceableness.
smoothness, but many object to their weight. Light, in comparison, and suitable for early fall, is the wool sateen, exquisitely woven, shown in plain
colors, or finished in self-colored dots. It combines admirably with another fabric.
Grosgrain silk and the corded varieties, so long out of general service, are shown in fall goods.
Moire antique, satin-striped, plain or brocaded, and Moire antique, satig-sin are among the heavy, silks.
satin-striped grograin
In millinery, broad effects are sought after in trimming hats and bonnets, each side being trimmed last year, with velvet and satin for dressy occasions, last year, will $\begin{aligned} & \text { while small-crowned jet bonnets, profusely trimmed, } \\ & \text { bunt }\end{aligned}$ but less pronounced than in summer, continue in
favor. In felt hats, square or low crowns will he more
generally worn than high ones. Brims are of moderate width, variously shaped, and some are
allowed to droop in pleasing manner. Birds and wings are largely used in trinming, and jet adorns wings are largely everything, being fashioned into flowers, leaves, sprays and fanciful conceits of many sorts.
satin, and velvet ribbon, piece velvet, velvet flowers as roses, violets, geraniums, all hold place as acc
hues.

## The Care of the Aged.

Many of us have the care of aged people, and Whether they be parents or friends only, they need
great deal of care, and special care, too. The chief points to be considered for their comfort are moderte digestible food, sufficient warmth, and an even, quiet life, free from trouble.
The chief of the three is the food. While all a few hints can be given that may prove of value. The older a person is, after fifty, the less food he requires. Luigi Cornaro, whnived to one hundred, of solid food and fourteen ounces of fluid daily during the latter part of his life; and his mosi severe illness was caused by his increasing his allowan
friends.

Very little animal food is required, and though in many respects false teeth are a great boon the aged, they may lead to too greataconsumptiono in old age. Bread and milk is a capital diet. Milk agrees with nearly all.
Hot milk with a little prepared food forms an a hot water jug covered with a cosey. Fruit is whole some, if ripe or well cooked; fat is also good, as cream or resh butter. be regular, and excesse and all
avoided.
As to clothing, it should be both warm and light. Fur is an admirable material, and the underclothing
should be of wool. A sealskin waistcoat is useful, should be of wool. And seanould be well and warmly clad. An eiderdown quilt on the bed is a good covering, for no aged person I will herespecify some er
with regard to old people :- -

1. That the aged require rich and very nourishing food. That early rising is good for them.
2. That
3. That eary rising is good for them.; whereas, they are fraught wind dinner pills ar needed to digest the food; whereas, instead, les should be eaten.
4. That their rooms should be hot; whereas,
they should be cool, but not cold- 65 to 70 degrees. they should be cool, but not cold-6idly adhered to
5. That a fixed diet should be rigidy whereas, variety is often essential. Two oclock a. m. is the hour when most deaths take place; then the temperature The warmth o the bed is of great importance in old age. A
warm bath should be taken every day, with plenty
It of pure sap to keep the skin supp the opportunity,
is better for old people, who have
to winter in a warm climate, but if they cannot they should shut themselves up in a well-warmed
house at this season. All habits of old people should house at this season. All habits of old people shet lightly altered.
be respected, and not Whatever causes exhaustion sho

October 15, 189
THE FARMER'S ADVOCATE

## "From London to London.

 I do not know what sort of a place London,Canada, may be in the month of September, but I do know london, England and I can confidently state that of all seasons in the year that is
the one in which she appears in her least attractive guise. Fresh from the edilights of the country, the
gut unfortunate mortal whose duties summon him town. The very approach is depressing. All the of squalid suburbs before London itself is reached I cannot explain why it is, but it is an undoubted
 to say that we have no blue skies in Lordon :
have seen skies as softly, tenderly azure here as any in the heart of the country, but certainly at thi a thick grey blanket of heavy cloud. We have had a wet and gloomy summer, and the harve
propects in many parts of the country are melan propects in extreme. Here in London, we have
chlole in that extre than a foretaste of the depress-
alread had more already had more than a foretaste of the depress-
ing fogs which were rampant two or three years ing fogs which were agrampant the to to tegin so soarly, agno the prospect is anything hut cheering. Just now, too, there is an entire absence of the stirring mental atmosphere which may come to us lateron,
to compensate in some measure for the outward gloom. The city streets, to be sure, are packed as thickly as ever, but in the West End, one traverses
street after street of empty houses, where the street after street of empty houses, where the
endless rows of white-shrouded windows make one feel as if one had strayed into a city of the dead. "Half the roodways are given over to repairers, and "Not to realize more strongly the difference between London in "the season" and London out or
it, one has only to take a stroll in Hyde Park it, one has only to take a stroil ine. The rows of
between the hours of three and five The
 and many of them are occupied,
might belong to another bemisphere, so strangely
and out of keeping do they look or eyes hate is
accustomed to the Park in May or June. Here accustomed to the torist, with guide -book in hand,
the wandering tours
and and travelling satchel slung across ${ }^{\text {and }}$, then there are large family parties-stout papas, Then, there are large family parties-stou papas,
harassed looking mammas, squads of children. Troops of youngsters run riot in Rotten Row. In place of the ceaseless roll and rattle of hundreas o perfectly-appointed catinuously, five abreast, there are
and forwards cont now only a few belated vehicles, ambling by in a
shame-faced and desultory manner. Now and then may be seen a stylish carriage-and-pair from one o the fashionable hotells, filied with a party of foreigners. If, as often happens th be the case
these are all men, the effect is far from picturesque Why is it that a carriage filled with men alone looks so ugly" A carriage filled
has not at all such a jarring effect.
Each year sees an increase of American visitor to London, and hear that the custom is growing of American ladies doing their shopping over here,
instead of devoting themselves to Paris, as used to be the case. Many of the fashionable shops now doason. The great difference in price between season. and Parisian goods is probably account
London able for ex are certainly not a monopoly of the latter There is a lull just now in the wor ot yet being displayed, but softly-blended shades and mixture will probably be the favorite wear. Checks and stripes and tigure-pattern stuffs of aik lin material stylish and dress. effect the hoped that the great-
seems to attain to
It
 the shoulders, were very trying to all bat the
slender and graceful, while the dresses that were slender and graceetul, whine hde looks. The sudden bursting into extra gigantic sieeves, both in gowns date those unfortunate wearers who are compelled to make their garments cover more than one season. The only people that benenitsyakese shitting vagaries of fashion are the dessmikese eath year.
parently, drive a more thriving lusiness
TIHNTLL.

Infant's Knitted Belt.
 only poople would wear what are known as "chol-
ond belts." Lnless a cold affects either head or era belts." Unless a cold affects either head or
chest it is rarely considered a cold at anl, and yet,
 hildren, warmth is specially necessary, and think mottle folks with warm knitted belts. For an infant
 3 pelain, 2 purl, until a depth of athot inches 12 stitches. Kinit
heen worked, then cast oft all huet back wards and forwards on these, narrowing at stith is left
beginning of each row till only one sit beginning of each rew
This makes a tab $l y$ which to pin the band in place.


Heard in the Music Shop. The assistant in the music shop was dozing his chair, waiting for customers, when he heard a
int consonance of musical tones. He could disinguish nothing at first, but presently shapes came ut of the sounds, and these shapes were word "You are only a quadruped," remarked the organ o the piano.
you an on yourself, will you!" said the piano "You are too close kin tc be quarrelling," venured the music-box.
"We'll wind you up in about a minute," grumbled the organ. " It takes a crank to do that, whistled the flute. "Aw, you are full of holes," blared the cornet. you are," squealed "That beats me," rattled the drum, as it joined in the fray. "Two heads are better than one, if both are sheep,"s heads," twanged the guitar. "ro string yourself," bellowed the base drum. "Soppose you soak your head the guitar. "Rats!" screamed the trombone, "you are full of wind.
"Here, it's time for you to stide ou
"Hold up," thrummed the harp. "You think you are very smart because you have a bow, don' "My opinion of you, " rasped the violin, turning
fiercely on the harp, "is that you are only a sort of lyre, anyhow;" and with this Wagnerian outburst such a wild disc lit on the cat, asleep in the sun, and out od so much fuss that a policeman came in to se who was t

When I Was a Girl

## Aunt Clarissa wears her snow-white hai In the fashion of long ago,

With three little eurrs each side her fac
Arranged in a spiral row.
Arranged in a spiral row. frizzy ban
But she looks akkance at my
When their fuffy kink unfurl,

She gowns herself in a skimpy frock
That is fearfully short in the waist.
But opens her eyes at my high cuts
Ant thinks them deoooid or tuste.
It fairl gives mean ant of the blu
And sets my head in whirl.

You'd think the giris. in tunt Clari
Were angele from top to tor
To
Whear how gromy she electures me
When I chance to mention a becaul.
And if 1 just venture to tpeak of love
Her lips take an up ward curl.
Her lips take an upward curl,
And she says, in a prim and rudish way.
"at me, when $I$ was a girl!
But I found her reading a letter once;
It wast tied with ar ribonon bue
bited by time.

For 1 saw a fluwh on her faded cheek.
Half hid by the spiral curl,
Half hid by the spiral curl,
And h heard her murmur. in accents low.
La ! me, when I was a givt?"
Puzzles.
PRIZE PUZZLe.



Through the eunshine of day, through the darknend of night
And those who would find met must tind me inded.
Is they narrowly scan and this poesy read.
Montex smin sow.
Half Sol are.
of the soul to speak.
1.st. Endeavor of the soul
2nd. Resting on the
3rd. To cover it hrave
It.

3rd. To cover with
3th A preposition.
sth. A 价居.




Answers to Sept. 15th Puzzles
Answers to Sept. 15th Puzzles.


The Children's crusade ave you heard the wonderful story Of what happened so olongrago.
way in the Rnenish country. Nay in the Renish country,
In sight of the Alppine sonw,
How thousauds of hitte childre
 Set forth for the Holy Land 1 ,
From hamelet tand tow and castle.
For many a weary day, For many a weary day
These chindren had sean their fathers
March to the East away. Why do they got they yuestioned.
of the nothers wo wathed and wept Theig go to wreest from the Pagan
The orom where the edear Iord slept."
And the thought in their young hearts kindled, ret us wear the cross on our shoulde

 A nd so as they tell, these child ren
on their trange will mision went
But the Suviour WWho would not lead them
In the way He had not sent. But the Saviour. Who would
In he way He had not sent.
Lifted them up in His pity-.
 Sewt whet is the tender lesson
Nowrhat ap ind thor so
And what can we tearn from the children And what can we tearn trom the e
Who perished for ong ago
For the sepulchros sake, where only For the sepusthe Redeomer lay.
Three dys
The were willing to toce such pasted their lives away. The were willing to fo face suy.
As wasted their liven away.
For a Temple that is oterna). For a Temple that is eterua,
Where he. Hiving sones are piled,
Each stone of the costly building Each stone of the costly building
The thoure ton heathen ohild
Anoushand children, Are there ten thousand children,
Wiver this land sob rod
Willing to woik otheir Wearing the badge of God d
A he there ten thousand children, Filled with a zeal intens
Ready for hrist to offer
Ready for christ their prayers, their pence ?
Tor the gifts and the prayers of the children
Gathered in one stron bond.
Could conuer the world tord Josus,
And make it a . Holy Land."
" Do not, because you can do so little for others. do nothing. Look around you-first in your own family, then amongst your rot some one whose burden you can lighten, whose care you may essen, whose pleasures you can promote, whose wants and wishes you can gratify. Giving up
cheerfully our own occupations to attend to others, is one of the little kindnesses and self-denials; doing lithe things that nobody likes to do, which must seldom perform little kindnesses without little self-denials: and the habit once formed of daily attending to others, and trying to please and Eerve them, is
natural selfishness."

> Opportunities.

here is always someone to smile at; somebody to whom a book, a fill be a boon, or even an or will open the way to confidence, will make it possible that need these friends wiless you had shown thought fulness and regard for them, they would neve have done. A quiet, sympathetic look or smile
many a time unbars a heart that needs the hel many a time unbars a heal Joseph
that you can give.

The Best That I Can





Kept on winding inpy golden head:
Through the happy golden head

- Mother anid TMap ar of God reat plan
so mutt try to do the bert that T can.
So he helped a neighbor's child along,
Though tired her own small feet;
nd he seng from her hewrt a little song


THE FARMER'S ADVOCATE.

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SHorthorn Catil \& LIICOLN shere, Wed nesday, Oct. 31st, 189, at 11 oclock p. m., at
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 equally well-bred; also twelve registered cows
and heifer. The hiefers got by British Chief
$=11243=$.
Lincolns-ten ram shearling and aged ewes, ten ewe lambs. Also
nine hisad of carriage and roadster colts and
fillies. $20 \cdot \mathrm{a} \cdot \mathrm{om} \quad$ E. KOBSOR, OUROC-JERSEYS Are the most proftable breed bining all the qualitioes to to in exike the itence, ideam- hom.
They are non-squealers, good feeders, fast growers, quiet and contentod, and very prolific.
and the produce the finest quality of meat.
ive have on hand

 Ridgetown, O


20-L-om
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STOCK GOSSIP. Tape Bros., Ridgetown:- "We have returned
home from the fairs, this being our experiment al risit to the Industrial, Toronto, and we were well-pleased with the usage we courteous, kind and accommodating in every agingly successful at either of the above-men tioned fairs, securing on our herd of fourteen entries at the Industrial, seven firsts, four with the Tamworths at the Western, we the two bronze medals. We met many of our customers at the fairs, and all were well-
pleased with the Duroc.Jerceys. We made a are Newrick wilson, Brougham, a boar: Geo, Orr, Tempo, a boar: Jos. F. Hooper, Granton, a pair; Hodgins \& Stanley, Clandeboye, boar; Woodham, sow : David Clangersmith, Moravian, boar: Con. Wilson, Thamesville, boar.
The demand is rapidly , The demand is rapidly increasing, and the

IT PAYSTO ADVERTISE

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end an advertisement to
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 With Bagging Attachment. It Cleans Alske Clover to Perfeetion ; also
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 | and |
| :---: |
| hou |
| hei |
| $J$ |

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MAPLE LODGE STOCK FARM. A splendid lot of Leicester sheep, both sexes, and our voung Shorthorn bulls are an excellent
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$\bar{j}-2-\mathrm{y}$-om

## 

 and heifere oil hit Price toA. J.C. SHAN \& SONS.



NOTICE. ter In writing to adv
the Farmers Advocate.
"HOME
"home Comport" ranges.






























 calls sat oour house you may reate man, that the the







STOCK GOSSIP.












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JAMES COOPER $\&$ SON,


Choice Shropshires, Shearlings and Lambs Of both sexes. from imported stock,
for sale at prices to suit the times.
CHAS. CALDER,

$\substack{\text { Inported } \\ \text { mome bred } \\ \text { mod } \\ \text { LINCOL }}$


 Rams to
specialty.
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or br bred from im ported
stock, and have carried
 ing seepstakes overal Fan Stock Show, Pig $\underset{\substack{\text { of all age } \\ \text { gyom }}}{ }$


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Large English Berkshires $\&$ Imp.
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tion solicited.


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