## Contents of this number.


R. \& J. PANSFOPD OLINTON, ONT.
"Alexandra" Sapantars
The Cheapest in the world Are guaranteed efficient, simple, durable (A
cmio cos wor rink). Sent on free trial. Prices R. A. LISTER \& CO., LIMITED R. A. LISTER \& CO.g LIMITED
s79 and 581 st. Pail stroet. it
MONTREAL, Agents wanted

## Agents Wanted

We desire to engage in every Province, either on salary or commission, a number of firstclass, reliable agents, to obtain new subscribers to the "Farmer's Advocate." Sons of old subscribers preferred. of old subscribers
THE WILLIAM WELD CO., Limited, london, ontario

EDITORIAL

| Ho |
| :---: |
| W |
| T |
| P |
| $\mathbf{B}$ |
|  |

Winter Stook Ferding
The Winter Fat Stoce Shows
Pay hor Your Paper this Way..
Brivgs Thres tmiks the Buyers


stoce.








farm.
Discription of Johi Campbril's First-prizk farmaousk



DAIRY.









POULTRY.
POULTRy.
Pouitry department of the fat Stock Show to be a big
 GRDEN AND ORCHARD.

 | intensive Cultivation in |
| :--- |



Miscklinneous:-
For PLantive
MARKETS
FARM GOSSIT:-CROPS IN THE EASTREN PROVINCES;
HURON

Toronto Markets Stio frö ciel leticago
home magazine.



notices...
ADVERTISEMENTS.
PUBLISHED TWICE A MONTH, AT LONDON AND WIMMPEG, CAN.


Nail hilis in Your Memory. .
Windsor Salt gives to butter that delicious sweetness and freshness which brings the high price. Perfectly pure; natural crystals.

## Do You Want a Cockeral?

 Barred and Buff Rocks, Silver and Buff Wyandoties, White and Buff Leghorn
tock mos 216 mims nis
J. O. LYONS. SUROPEMIRE SHEEP AND COLLIE DOGS SHROPSHIRE SHEEP ARD COLLLE DU0s. 200 Bronze Turkey, the Farwerg Daughter
striin. 100 White Hituan Turkeys, Witon Grove, Ont.
W. H. BEATTIE.

THE FARMER'S ADVOCATE,

 dAM, ETC.

THE, B, EDDYCO. - ( (unirio)

Hunts,
Mox yoting and winter

- FHIAELL TRUBK SBIE and mixit in mantin inis sive HI TME.


95 Per Cent. $\begin{gathered}\text { Hatches are orten reported by } \\ \text { those }\end{gathered}$ One reason tor this reoord is abbelute unitormity of
 it would be to purchase an Incubator or Brgoder


O. ROLLAND,

373 St. Paul St., MONTREAL. Sole Agent tor the Dominion.

 FEVER



## LIGHTNING WIL MACHI

 IS THE STA NDARD CASOLINE ENGINES OU AS THE AMERICAN WELL WORKS IST

SEND FOR ILLUSTRATED PRICE LIST.
Beautiful 8 -day Clock, strikes the hour and half-hour, only $\$ 2.50$


S3a DaySure LIVE STOOK Auction SILES


II roir Ais Is A Goot Gompany Silaed The Mantheturers' Life Insurices Company, Toronto.
J. F. Junkin. maniging

$=$ Brantford
"Maple Leaf Grinder."


LONDON, ONT., AND WINNIPEG, MAN., NOVEMBER 15, 1899.

## EDITORIAL

House Plan Competition.

## wards.

First prize, John Campbell, Victoria Co., Ont. Second prize, Wellington F. Justin, Halton Third prize, Wilbert W. Revington, Middlese o, Ont.
In the July 1st and subsequent issues of the FARMER'S ADVOcate, three prizes were offered for plans, photos farmhouses, at a cost ranging from $\$ 1,5 C 0$ to $\$ 3,000$. Twenty-nine competitors entered in the competition. The points taken into consideration in making the above awards were: the "lay out" of the house, or the general merit and completeness of the plans as such ; provision for domestic conveni ence and comfort, arrangements for heating, sanitation, etc., with as attractive an appearance as practicable whin the written description and the completeness of the written description and which an engraving could be made, as required in our published announcement of conditions. The competition was open during the months of July August and September. We publish in this issue engravings and description of the house of Mr. Joh Campbell, accorded first place, the two others to appear subsequently. We also publish two othe
articles upon this important subject, all of which articles upon this important subject, all of whieh,
we trust, may be of service to our readers. Our we thust, may are due to the many who took part in the competition, thus bringing before our attention competition, thus bringing before our at
many excellent and carefully-prepared plans.

## Winter Stock Feeding.

In the course of the ever-revolving cycles of the seasons, grim winter is again approaching, and though the late autumn months of the present-year have been exceptionally favorable to the farmers whose supply of fod drought, is none too large, and protracted summer drought, is none too large, and usual, the time has fully come when all stock should be fed some nutritious food in addition to what they derive from the grass, which, though possibly still affording a fairly good bite, has not now the same nutritive properties that it possessed earier in the season. With a view to economy of feed, the
temptation is generally strong to leave the stock to temptation is generally strong to leave the stock to
shift for themselves in the fields as long as they can find a living. This is in most cases a false economy as in addition to the failing quality of the pasturage the long, cold nights and damp lying will seriously affect the animals, which, while seemingly retaining their outward condition, will suffer a serious loss o internal fat, which it will take considerable time an feed in the stall to replace. This is a most imporwhich it is intended to get ready for the market in the early spring, and is one he cannot afford to the early spring, and is one he cannot food, and money. There is a loss of all these while the animals are going back in condition, and again while the condition is being recovered, as a fortnight's ful feeding will not suffice to restore the lo
by a week of hardship on the pastures.
by a week of hardship on the pastures. the milking cows have for several weeks been stabled at night and fed a liberal ration in addition to what they have found in the fields during the day. now generally understood that milk secretion
shrinks rapidly when the cows are left out in cold winds or on frosty nights, and that it is almost, if not quite, impossible to restore the normal flow
even by extra and persistent feeding. It is true even by extra and persistent feeding. It is true
economy to take up all young stock and give them economy to take up all young stock and give them
shelter at night and on/stormy days by the end of November, and to gradually accustom them to winter feed by giving them a little hay and succu
lent food, such as turnips or ensilage, or a light ation of bran and oats to keep up their condition nd prevent shrinkage. The scarcity of roots this delay in commencing to feed them, but it will be wiser to begin early to feed a few each day, if it be only half of thequantity usually considered liberal feeding, as when animals are put on dry feed alone, they are liable to constipation, impaction and other disorders of the digestive organs, which may lead o serious trouble and loss, which succulent foo may prevent by keeping all the organs in regula n store, the best substitute is bran and oil cake, a very small portion of which will serve to keep up condition and promote healthfulness.
Working horses which have had regular exercise and full feed while plowing and teaming during the all, are apt to be left standing in the stable whe he frost stops the plows, and often their full ration ontinued, whilen limbs and blood ailments, which may prove a serious loss if not guarded against by owering the grain feed and turning out for a few hours each day for exercise.
The sheep are usually the last of the stock housed, being, as a rule, left to find for themselves till sno overs the grass so deeply that they cannot, eve by scratching, get a living; but they wire patment by ally for protection and more generous treatmenth of wool, and in view of this should have shelter from cold rains and drifting storms. Where shelter is not practicable, a daily ration of oats and bran, or ther concentrated food, given in troughs in the eld, will greatly help to maintain fesh and thrif The thoughtril and provient sher for eglect at this seaso or if ticks and lice are ences of skin inisease, or preparations for combat ing these insidious enemies of the health of the flock. Experience has taught that it is wise to reat for these troubles at the beginning of winte whether the indications are present or not, as pre vention is better that cure, and-fold in the thrift xpenses produced; while if it is neglected, and scab or vermin find a footing towards lambing time, treat ment may be found inconvenient, if not impossible and weary months of suffering by the sheep and shame by the shepherd must be endured before reie can come by way of the shears tank, with a

The Winter Fat Stock Shows.
"The Smithfield of Canada" and the Ontario Pro vincial Fat Stock, Dairy and Dressed Poutry Show the greatest institutions of their kind in the Do minion, will be held next mon Fat Stock Club and the auspices of the in City of Guelph, DecemPoultry to 8 th, and the latter under the auspices of the Dominion Cattle, Sheep and Swine Breeders Association and the Western Fair Association, in the City of London, December 11th to 15th, and alsindications point to their being even more interesting than any of the inst of sighich have preceded them. under the same auspices, ware the only purely agriThese winter shows are the only pureld in the Dominion, and being controlled and directed by practical farmers, stock-breeders and dairymen, are calculated in their design and purpose for furnishing a liberal education in the science and art of breeding and feeding farm stock, which few farm ers can afford to miss
The earlier exhibitions serve a good purpose in stimulating a healthy rivalry, by offering prizes lected for holding them is the most suitable for the
accommodation of the crowds of people principally on pleasure bent, who thus avail themselves of throng is not conducive to a careful inspection and study of types, and the numerous counter-attractions distract attention from the practical features of thè show, and consequently the lessons le
a helpful kind are proportionately limited.
The winter show is a special function of intarest
o every farmer, in that it is designed to encourage the raising of the class of animals best calculated to furnish the kind of meat and milk products which our best markets demand. There has been a distinct advance along this line in the last decade. The fat stock show of former days provided an exhibition largely of low-priced lard and tallow in living packages of unwieldy size and grotesque
form $\rightarrow$ moving mountains of stale fat stock fed far form-moving mountains of stale fat stock fed far ured for prizes in successive shows, finding a meager market as butcher-shop holiday prodigies, and for the most part an ignoble finale in the rendering tank. All this has been changed. The old and over-fed ox, the plethoric pig, and the shuffling fat sheep, is stead the handy-sized baby beef bullock, the flrmfleshed yearling mutton sheep, and the ideal bacon hog, whose average life is limited to about half a year, and whose well-nourished, lean flesh tempts the appetite of the epicure, and is found on the breakfast table of nobility. And all these, ready for the end of their being, have been brought to this point of perfection within the period of lime at
when weight is gained at the most rapid rate, at when weight is gained at cost, and of the best quality, when intelligent methods of feeding with well-balanced rations are adopted. To our mind there is no other place where the results of good breeding and good feed ing can be so readily seen and so satisfactorily studied as at these fat stock shows, where com parisons may be made and conciusions drawn which to learn.
The block test and the exhibition of the dressed carcasses is a logical accompaniment of the fatstock show, and we are pleased to note that this feature which has formerly been limited to the class for bacon hogs, has this year been extended at the Pro not be long before cattle are brought under th same category. One of the most intensely inter esting incidents of the show at Brantford, Ont., last year was the display of dressed carcasses on the platform at the joint meeting of breeders, and the explanations of the expert judges who made the awards, and the discussi.
present which followed.
The milking test of dairy cows is a department of the show which is growing in favor, and which we believe, will be more extensive and interesting this year than on any previous occasion. The judg ing of cows by conformation and the other theore ical indications for milk and butter production at the fall fairs is very well in its place as a factor
fixing approved types, but the scales and the butter fat test, under equitable rules, constitute the only absolutely reliable and trustworthy tribunal for settling the question of individual superiority The dressed poultry department will, for the first time in this connection, be given the prominenc which, as one of the most prontabe branches farming, it deserves.
the latter show explain the different appliances on
exhibition and the best methods of preparing poulexhibition and the best methots of preparing pou
try for the export as well as for the home trade. try for the export as well as for the home traig.
Not the least important feature of the programe
for the week at London is the meeting arranged fo for the week at London is the meeting arranged for and competent men will deliver addresses sure to be
full of food for reflection, while the interchange o full of food for refiection, whinot the int to be mutually beneficial. Lower railway fares render it practica
ble for many to avail themselves of the benefit o this outing, and we hope to see a larger attendan
this year than at former gatherings of this kind.

The Farmerts Advocate and Homm Magazine. THIE LIADING AGRTGULTURAL JOURIVAL IN

 Eneman Omos:


W. W. OHAPMAN, Agent, Fitmian Hones
W. OHAPMAN, Agent, Fitmian Ho
Stand, Iondon, W. O, Bngland.
JOHN WELD, MARIE
-
Hinimpertial and ind dependent of an olitiques or parties, handsomely


2. ADVERTISING RAMrris Soningle innertion, 30 oentr per line



to to diricontinued.
7. REMTrTANongisued. shaud bo mode direct to this ombee, elther by
2. Arwan mol otherwive wir onnot bo repponsible,
this DAN
10. subscringrs miling to rooive their paper promptly and
11. NO ANONYMOUS communications or enquiries will reoeive atten-
12. Lyywires intended for publication athould be written on one side





Addrees-THE FARMER'S ADVOCATE, or
THE WLLIAM WELD CO.,
Pay for Your Paper this Way.
A very large number of our subscribers are taking advantage of the exceedingly this: Tha ou send us the names and P.O. addresses of two new subscribers and $\$ 2.00$ and we will advance your own subscription one year and mark the new subscribers paid till the end of 1900 . This is a case where your free paper for next year), to you ht-to yourself (a free paper for next year), to your carry out more completely the arrangements we have made for improvements in the Farmer's Ad ocate for 1900. New subscribers will receive the Farmer's Advocate regularly from the time they pay their dollar until the end of 1900, including our andsome Christmas number, 1899, which alon to non-subscribers will be 50 cents.

Address : The William Weld Co. (Limited)

## Brings Three Times the Buyers.

maitors Farmrr's advocate:
Gentlibmen, - I enclose herewith cheque to cover mount of account for advertising, and as soon as have more stock to dispose of, I will not forget you the advertisement of my sale in the Farmer's Advocatr brought more buyers than any other paper, and for several years past I have had an advertisement in three Canadian agricultural journals, and the advertisement in your column has usually brought me three times more buyer han any others
Wishing you much success, and if I can be of any service in furnishing informa
will be pleased to do so, I am ,

Yours truly,
W. F.
"Brook Hill Farm," Quebec,
Nov. 6th, 1899.

## The Great West.

anoe by j. m'calo. A good deal has been written and said about the aing shifted rapidly westward; and not without reason. Ontario has up to the present time been considered the industrial, commercial, political, and intellectual hub of British North America. The country vaguely called "out west has been regared as a land of semi-exile, where the buly monarch of the waste, and the redskin the only interruption to his sway. White men living in the country exen look big game, danger or death in the men looking for big game, danger or death ind of life-in-death on the prairie, alarmed almost at the sight of a fellow creature, and constrained to hibernate like the bears against the fatal and irresistible blizzard.

This conception of the loneliness of the West is being rudely modified. Ontario, though capable of the support of a much larger population than it has at present, has enjoyed a populousness in advance
of what it deserves, relative to the opportunities afforded for support in other parts of theDominion.
Previous to the opening of the Canadian Pacific Railway our surplus population found its way across the line. At present it is surging into our been experimenting in United States for some years are returning to thin homits in New Canada, is the are bringing Americans with them. So great is the sources combined, that it seems not beyond reasonten millions ten years hence.
There is good reason why this should come about. The feverish growth of population in the
United States from immigration is rapidly approaching completion, and consequently the chances for an easy living from the free use of the
forces of natural production, on the other side of the line, are rapidly lessening. The existence of try, the reputation of Manitoba wheat, western cattle, and western gold, are all in our favor. The surprise to ourselves, as well as to the world. Winnipeg alone, with its fifty thousand souls, and
its continuous rapid growth is a good start. It is its continuous rapid growth, is a good start. It is supported
terests, as well as by large manufacturing and
distributing interests. Its chances for growth are distributing interests. Its chances for growih are
multiplying, its inflation and boom period is over, multiplying, its inflation and boo
and its growth is stable and sure.

SOME EASTERN ILLUSIONS.
There is a lingering idea in eastern minds that hough the speculative opportunities of the West omewhat raw. This arises simply from the idea that the West is far away; from either local prejudice or local patriotism. Though it is true that she of small means than it has of persons of comfortble means, and that the part of eastern population representing the largest degree of cuiture and
intellectual acquirement is, on this account, left
behind, those who have come out represent great behind, those who have come out represent great mergy, susceptibinity, and capacity by reason of the change from the deadening routine of hopeless competition to surbility, and ingenuoy. Historically, colonies have more rapid than the advance in the mother country. With regard to social progress, too, it may be said Chat the graces of life are not neglected. Artifica advantage, rather than a disaivantage, as far as
the solidarity of society is concerned. Social symthe solidarity of society is concerned. Social symless deadening organization. Deprivation in the shape of scarcity of articles of luxury, or of books for recreation and improvement, is not so prevalent
as is generally supposed. The confidence that as is generally supposed. The confidence that
westerners feel in their business enterprises extends
to their purchases for the satisfaction of their own to their purchases for the satisfaction of their own wants. If they want a thing they
quick. In dense populations people decide as to a bors have. Western population is sparse, and consequently, fashion wants are fewer than in the
East, but their satisfaction relatively greater. I feel that in presenting to your readers my mimpres-
sions of the characteristics, limitations, and capa sions of the characteristics, limitations, and capa-
cities of the West, the ahove general treatment is
necessary before dealing with the agricultural and necessary before dealing with
stock interests of the country.

## The Farmer's House

A writer in the New York Weekly Tribune asks the question:, "What sort of a house should a
farmer have? "He intimates that farmers all over the land are building better houses, indicating a return of prosperity, but still he thinks that farmthey are too often designed by men who do not
understand the real needs of the farmer or the de-
mands of the farm. It is certainly not wise to embark in extravagance by presuming upon "bettor cimes" or to try to imitate upon the farm the flashy
city or town residence, though the dwelling house city or town rarmer and his family should be a good and a comfortable one and reasonably attractive, for no
one deserves it better. The writer in question points out that a farmhouse, in the first place demands a great deal of roominess. It requires, above all things else, an abundance of storage roon I include in the term house a good deal that som
farmers would associate with the idea of barn. IT farmer has it at his option to associate much of hi storage room with the dwelling house or the barn;
but somewhere he must have it, and somewhere he very seldom does have it.
The one thing notable about our farmhouses, as they are now built, is this lack of room. There are parlors and other appurtenances of the sort, bu
there are no fruit rooms, and even the cellars are rarely much more than dugouts. There should be in all cases a toolroom in rear, where the house
repairs can be carried on, and there should be some. thing very much like the old kitchen where weavin and spinning were performed. The modern farm kitchen is a meager affair, modelled after village homes. In the second place, the farmhouse needs
a good deal of what we might call outdoorishneso People who live in the country need verandas and balconies, so that they coun enjoy the air and the landscape without restriction. These should com mand every possible outlook that is attractive and
restful. No house in the world requires less of the indoor comforts and more of the outdoor comforts in proportion. Yet I do not know a half dozen than a meager attachment, intended more for show than use. Build your house with broad, capacious outdoor rooms, and let these be well supplied
summer with hammocks and reclining chairs. summer with hammocks and reclining charrs.
The third thing that a farmer's house partico demands is plenty of water. This is the last thing, unfortunately, that is attended to. You will find a
single well, as shallow as possible to secure water at single well, as shallow as possible to secure water at
all. It is sure to be dry during a protracted drought. Yet a very large proportion of our farmhouses can be easily and cheaply supplied with an abundance of water, carried inside to nearly every room in
the house. The cost is not great, and should be attended to above all other requirements. There no man's work requires the refreshment and puri
cation of a bath more than that of the land till In many cases running water is easily secured, to be carried by pipe at no great expense, or it can be
elevated and conveyed considerable distance by windmill power. Heating by furnace or hot water windmill power. Heating by furn
is preferable to an array of stoves.
The fourth point, all-importen
The fourth point, all-important for the farmer's
house, is good drainage. To neglect this is either house, is good drainage. To neglect this is either
pure shiftlessness or it is recklessness. Nearly all the disease associated with our farmers' homes comes from imperfect drainage. Filth in one
direction breeds filth in another. Having occasion direction breeds filth in another. Having occasion recently to drive through the back yard of a farm-
house, I found the well twenty feet below the outhouse, on a slope, and near by stood open milk-cans with the bedding of the household flung on top to
be aired. The whole business of sanitation and purification needs attention, but it does not need a large amount of expert knowledge. The farmer rarely needs to introduce the Waring system, or
any other system, to carry away impurities from any other system, to carry away impurice
his house and place them where they can be utilized.
His house should be, if possible, on a rise of ground; His house should be, if possible, on a rise of ground;
his supply of water obtained from above, and his his supply of water obtained from above, and his
cesspools and privies always on the lower ground. cesspools and privies always on the lower gthouses
But why should any farmhhouse have its outho
for the family out of doors? Now that the fact is for the family out of doors? Now that the fact is noticeable that much finer houses are being erectave let us have attention paid to the few poins What is
noted.
When about to build, ask the question : What When about to build, ask the question : What is
it I particularly want? What sort of a spot have Itudy neighbors' houses, do so to get hints and broaden your views ; not to io imitate. No two farmhouses should be alike, as no two farms or aut of two are. In general, a house ought to grow out or the
things: the personality of the owners and the
peculiarities of the position. So it follow, you peculiarities of the position. So it follows, you
have not got a fine house because you have modelled have not got a fine house because you
it after what is fine somewhere else.
The Development of Canadian Pork Packing.
Pork packing in Oanada dates back over forty
ears, the Wm . Davies Company being the pioneers n Teronto, and Mr. F. W. Fearman in Hamilton, Ont., the latter establishing his first factory in invested in this business between $\$ 300,000$ and $\$ 400,000$, giving work to ever 600 persons; the yearly
output of bacon and products being put at about output of bacon and products being put at abour
$\$ 3,000,000$. Besides the Davies establishment, there is also the Park-Blackwell Company and the Wm.
Ryan Company in Toronto, the Lawry establishRyan Company in Toronto, the Lawry estabisis-
ment in Hamilton, the great Ingersoll Packing ment in Hamilton, the great Ingersoll Packing London, the new Palmerston packing establishone projected at Stouff ville, Ont., the R. Y. Grifin time Provinces, besides numbers of smaller concerns throughout the country. Th
dustry has been phenomenal.

STOCK.
Draft Horse Breeding
 "Like redouces like, isa a theory so well borne out in preding, as the ignoring of it is the rock on which meny 'breeder, with high hopes, wiil founder.
The average farmer of the present tay y admits the stupidity or using the secrub male bovine as as aire, anigher io the seale of ovolution, the geme priniciples must be obesved, The utility of the horigadepends nesiderata impairing his value greatigy not toin in the borine, at least in a lesser degroe Yot, by many hued, a case of ponny wivee, ete., policy, with results disastrous to to be breder. his locality, and


 sives San variation are dependent to a great exteont on

 Yett the indulgence to excess in such method will


 crose breeding. It must no
crose nrosing the chance
of viation ired type are greater than In the
In
theedint


 the of spring
sklection of sire.
 fronted with the duty of the
selection of the sire. As the sirichast hep roperty of giving ing on


 videnced by doee, wide ohest
 , inches of bone te. wish
 with shoulders, which shoond be fairly upight
 strong, large round, and fility; bone, nat and

 brain trobitie); active ears Action strong. Tree,
 generative organs large, tense (evidencing tone) sibn ormal. The size should be the greateses ito been sommenenorate horse is is neverpep poor eolor; still the solid colors are to be preferred, especially
the markets show that preference. The ire the markets show that preferenoe tirbe
Trie dis.

The dam should be of good size, low down to the ground, and, as in in tratid escription as used
 wide it the hips, with a large earrel, so as to allo plenty of room for the generative oryans during
gestation. More ualitity or sweetness is is alowed in the dam than in the sire, such quality not being incompatible with females. As the period or
costrum ocurs about evert twenty or twent-one oastrum oceurs about every thenty or wentyone
days, the time of mating will thenssarityonend on
The matron already
 can usually be again put in fol
mating
To cap process of mating should only be entrusted


SHORTHORN BULL CALVES, ROYAL JUDGE, JUDGE AND, AND DREYFU


The selecting of the animals is one of the mos
serfice isg iven, or damage, sometimes irreparable
will result to toth. If the stallion has a heavy weason the teasing can be oonon by an inferior entirire hores A tworearold sallion should not have more than twent tmaree in a seaoon, while aged during the same time. Mares should be returned to the stallion oncea every two weeks, and can then services a day, sand at least one hour between ser
 Character, as the tax on his system is severe, for this purpose whole oats cannot be surposeded, andin has been recentivg imported, he may prove unfertile
until acolimated, and if put to too many mares the same result will occur. In purchasimany a manes it hit Procreation Examination of the semen mioneroo
picall pically might also be of some asisitance. Unless in
Vory valuable horses, for whose serviees there is great demand, artiifcial impregnation will not be

 several capsules being introduced immediatily int to impregnate Some breaders practioi blood


 imple bores the pration of havinith theorgs come ithe breeder wishes to owork the mareoghevilitin in
foos.d.
Mr. A. S. MeBean's System of Steer
DEAR SRE, In reply to sour inguiry as to the mportant points in successful feeding. My experi Shorthorns and mot rade Herefords. Theanimals Shorthorns and good grade Herefords, The animals
are all weighed and dehorned on arrival. About 15 average animalssare selected, marked, and weighed every two weeks during the feeding period, which process gives an idea of the progress the whole lot
is making. The first month the animals are fed
only uncut turnips and hay. About 1,800 lbs. of straw per day is used for bedding, and when this is
put down fresh, I judge that each animal ents from to 4 lbs. The animais are fed twice a day. The
irst feed, consisting of 30 lbs. of turnips and from 12 to 15 lbs, oonsisting of 30 los, of turnips and from 12 each animal, is placed in the racks from the feeding passage, and racks are until 1p. m., giving the animals plenty of time to same quantity of turnips and hayd as gilled with the
morning, and lowered about 4 p . m . About 5 . A . morning, and lowered about 4 p. m. About 5.30
p. m. fresh hay is put in the racks without raising,
as the tops of the racks are level with the feeding as the tops of the racks are level with the feeding
floor. The racks are left down all night. The cattle have water before them all the time in two large This tank is supplied with water by a windmill. A
handful of salt for each animal is thrown on the turnips twice a week. A tablespoonful of sulphur
is given in the feed about once every two weeks. I have never used any spices or drugys, so cannots. say
anything about them. The seoond month I begin anything about them. The seoond month I begin
feeding them about 4 lbs . of meal per head per day with the same quantity of hay and turnips as fed increased to about 81 lbs , per animal per day, and the
turnips are reduced to about 40 lbs . The fourth
month the meal is increased to about 12 lbs . per day nond the turnips reduced to about 30 lbs 12 lbs . per day
and month 15 lbs. of meal is fed and 30 libs, of turnips. months must be left to the judgment of the f eeder,
who must never forget that the animals should have who must never forget that the animals should have ithout waste. My average was
about 15 lbs. per day per head
for last three months. This
combination of rations
manner in which I house and feed steers for the export market, I will endeavor to give you a general outline of the system I have adopted on my farm, and the results obtained.
My farm, about a mile in length, contains 177
acres. The buildings are located about the middle of the farm. The south end of the farm borders on Lake St. Francis, and the north end adjoins the village of Lancaster, through which runs the main
line of the Grand Trunk Railway. About 17 acres of the farm are taken up by buildings, lanes, ditches,
and lawns, leaving 100 acres under cultivation. Thirty ascres are devoted to gardening, the chief products of which, consisting of small fruits, vege-
tables, and nursery stock, are shipped to Montreal. The remaining 70 acres are used for growing coarse fodder, such as hay and turnips, with an occasional
field of grain for seeding down. A rotation of crops field of grain for seeding down. A rotation of crops two years, and the meanuring for the turnips is done
by top-dressing the meadows by top-dressing the meadows. I do not keep any
cattle during the summer months, except one or two milch cows. My idea is to grow enough coarse fodder to feed 124 steers, and buy concentrated food for them, and 100 hogs housed with the steers. The
feeding of this number of steers and hogs gives me a large quantity of manure for my garden and
farm, the product of the formier giving me my cash farm, the product of the former giving me my cash
returns during the summer and early winter returns
I have never raised or wintered any stockers,
but have bought in the fall, generally on the To ronto market, 3 to 4 -year-old steers, averaging in weight from 1,100 to $1,200 \mathrm{lbs}$, as I prefer animals of this size for fattening. I house my animais on the market during November, and as $I$ find it unprofitable to keep them over five months, I make a special effort to have them fat and ready for shipment about April st, just before the warm weah fat after the weather becomes warm,
they are fed loose, as I now feed.

## prayed with a coal-oil emulsion. I use a the

 pump attached to a barrel, and work the same from past underneath until they are all soaked itriven solution. For the last number of years it has been found necessary to spray three times during the free from veriod. families when one gives no return. If an animal is insick he is removed from the herd and is tied in sick he is removed from the herd and is tied in
stall set aside for that purpose, where he can bo stall set aside for that purpose,
properly treated and looked after.
My experience is that steers fed loose do better
than when tied in stalls, for when loose the animal than when tied in stalls, for when loose the anima is not under restraint as if tied, and lives much as himself against posts, and in this way relieve him self of this great itchiness incident to confinement.
He can also lie down and rise with greater ease. He can also lie down and rise with greater ease
The most important reason is the great increase in
weight in cattle fed loose over those tied. On fine weight in cattle fed loase over those tied. On fine warm days the cattle are let out in a yard to the
south, but, strange to say, they do not seem satisfied south, but, strange to say, they do not
and want to get back into the stable.
It is almost impossible to select 124 good feeder in one day, and last year it took from October 200 th ye November 15th to get the required number, 1 whole herd when stabled averaged 1,100
year the
On the 22th March, 1809 , I shipped out 38 heal Year the whoie herarch, 1800, I shipped out 38 head
lbs. On the
averaging 1,410 lbs., leaving, 88 head in the stable. Four of these 86 were old animals and poor feeders, one actually weighing less going out than when he
went in, the other three not gaining anything Went in, the other daree not gain, the remainin 85 were shipped out May 3rd, and averaged 1,37 lbs., making the average gain of the four poor feeders had been taken ou the gain would have been considerably more. have no doubt, all conditions being right, but tha
steers weighing $1,100 \mathrm{lbs}$. on entering the stable can steers weighing 1,100 lbs. on entering the The profit
be increased in 150 days to $1,400 \mathrm{lbs}$. The on these cattle will vary in proportion to the value
put on the coarse feed and the cost of the concen-
trated food, I consider I do well when I sell my
farm products to my cattle at a good market value pay labor of feeding and drawing out manure, nterest, insurance, wear and tear, and have the
manure to the good, which amounts to about 1,200 to 1,500 tons.
The hogs were allowed to run loose among the
cattle. At first the latter seemed to object, but soon cattle. At first the latter seemed to object, but soon
they became accustomed to the hogs and paid no attention to them. The hogs were rooting all the time, picking off any grain left on the straw used for bedding, and were on then eating. Ocasionally dropped a turnip which the animals pushed out of
they got a
their boxes. The hogs slept and were fed in a separate place, the opening into which was only large enough for them to pass through. They were
fed on an average of 2 lbs of meal each per day. They were kept 150 days, and gained in that tim lbs. They cost 4 cents per 1b., and sold
making a profit of about $\$ 2.25$ per head
One man attended to the 124 head of cattle and 100 hogs. The labor may seem smaall, but if the one man can do the work without any trouble. I have not grown any corn for ensilage for the
last two years. I find roots better adapted for last two years. I can grow from 900 to 1,200 bushels of turnips per acre, according to the season and at a cost of from $\$ 12$ to $\$ 15$ per acre. very large measure upon proper fertilization, in
 view not only the fattening elemens value; hence, the feed that produces the most fat, if lacking the out to be the best.
Thorn Hill Farm, Glengarry Co., Ont., Mover. 10, ${ }^{2}$. IFon Nore-For a complete description Mr. McBean's admirable system of stabling and Mr. McBean's admirable syilem illustrated, we woul refer the reader to the Farmer's Advocate of July lst last, which all would do well to study in connection with the above letter.]

## Stall Feeding of Fattening Cattle.

## To the Editor Farmars AdVocats:

SIr, - I fear that the giving of my little experience as to fattening cattlie may not prove of much
benefit to your many readers, for we have only benifit to your many readers, for we have ouly our line being more in feeding stockers and finishing them on grass. We aim to feed them in the stable on the grass, in order to be away or well advance in flesh before the usual midsummer drought or fly season, and then filling the late grass with stocker ready for we for of attaining all this, we can only ex press our opinion, acknowledging that perhaps we do not practice all we preach. As to the feed, we
never have roots. Our succulent food is corn ensilage. This, with cut straw, timothy hay and meal, is all the food we use. We try to have good silage. The cut feed is made when we thresh, being done all in one operation, as article. We aim to stable the cattle before they fail in flesh in the fall. With what little ex perience we have of stabling cattle loose, we would much prefer tying them up, being a saving of foo
as well as bedding, which means food in most cases As soon as possible after stabling the cattle, give
them a good application of some insecticide. Kerosine emulsion is preferred, as it clears the skin of scurf as well. The emulsion is easily applied with a corn scrub brush on the end of a 6 -foot handle that is necessary generally. Two-year-old steers of abou 1,050 or $1,100 \mathrm{lbs}$. weight, and of a growthy, well
built kind, are the best stockers. More matured steers, weighing about 1,200 or 1,300 , are good to fatten. They, instead of growing so much, lay on
flesh. which is all-important. We feed about 40 lbs. silage, 10 lbs. cut feed, and 6 or 8 lbs. meal to each stocker per day, dividing into two feeds, hav-
ing always a feed mixed ahead so as to all taste ing always a feed mixed ahead so as to all taste
alike. To fatten cattle we feed 45 or 50 lbs. silage 10 or 1 ibs . cut feed, and from 10 to 14 lbs . meal, giving
all the cattle one feed of hay in the day, as much as they will eat. For stockers we prefer corn meal and oatmeal (or bran), 2 to 1 ; and to fatten we prefer
peas and oats (or bran) 2 to 1 . The prices of the peas and oats (or bran) to . different kinds of grain rule us somewhat. It is best to commence mealing cattle as soon as they are put
in, so as to not let them lose any on the start, being careful to not overrose them with that or silage. As cattle are not all built constitutionally alike,
you must be ruled by judgment a great deal as to what about half the meal in the silage mixture an give the other half in the manger. By hydraulic rams water is forced to the stables, and, having water
troughs in front of the cattle, they are never turned troughs in front of the cattle, they are never turnel
out to water, which is indeed a pleasure, especially on a stormy day.
We have give
We have given sulphur to cattle. A teaspoonful a
week in their salt is about enough week in their salt is about enough. It keeps the
blood in good order, and aids to keep them clear o lice. Our programme for the day in a stable of 50 silage mixture, and while they are standing forward
is a good time to clean out the stables. When you
are through, perhaps some of the hearty eaters need
a little more ensilage. We have the water taps open a little more ensilage. We have the water taps open
while we are going over them. Meal them, and get out of the stable, so as not to disturb them, letting them lie down'quietly. Some winters we practice
feeding hay at noon, but find they do as well by not feeding hay at noon, but ind tiney a as wellon. We feed them their ensilage again, filling water trough
as well, and then, after mixing the feed for the next as well, and then, after mixing the fhich they will eat at off and on through the night. We never use a
are all right at bed lantern unless to see that they are all right at bed
time. Every farmer has his own way of feeding and, of course, likes it. This is our way, and
like it.
JoHN B. SHIPLEY ike it.
Midd

Cattle Feeding.
ay J. w. mikenzie, middlesex county, ont.
Feeding cattle is an important part of the vals every day regularly in order to attain best results. To this end the farmer must take an
interest and pride in the work.


EVA OF BARCHESKIE 2505 (Imported).
d-prize Ayrshire cow at Toronto Industrial, 1898
tinues till in May. Seeing, therefore, it requires a large share of the six winter months for this work, mode of performing it.
In the first place repair the stables, making them warm and comfortable; the floor even and close fit in stals, mangers, feed-hoxes, ties, etc., doors to Some prefer the following plan : To inclose the shejs, have the feed overhead, and place racks at the sides where the feed is thrown down; dehorn sheep, where they shall feed and quietly rest. We prefer the stall-feeding plan, although it involves more work; still, each an
We begin the feeding season as follows: Feed
ensilage, or straw and turnips, in the morning:

piet van voran, twoymardold holstein
Winner of first prize and the male championship of the breed
at the New Brunswick Provincial Exhibition, 1899.
(See "Gossip," page 641).
towards noon turn them out (the weather being fine) in the yard for three or four hours to water,
and to the straw-stack or straw in cribs. Then prepare the stables; straw in mangers, and a quart or less chop grain, according to age, size, etc., in leed-boxes. To this they rush in speedily; tie and leave till six o'clock,
bedded for the night.
For two or
For two or three months during the severe weather we discontinue turnip feeding and increase
the quantity of chop, and feed some hay. About the first of March we return to the turnip feeding and feed moderately for the first ten days, in-
creasing the quantity according to time and bulk to be fed. We feed hay, chop, or both, more liberally as we near spring. Allow free access to salt, or feed it
once or twice a week. We think turnips the best
feed by all odds to keep cattle thrifty and healthy To provide for cases of emergency it is wise to keep a bottle of turpentine in the stable, as it often affords ready relief of ailments among stock.
We would be pleased to see this subject taken up by others of your readers-giving their experience
and suggesting any new methods. ad sugge the fering described by
[NoTE.-The feeding described by Mr. McKenzie nished on grass in spring, in which are to be ecessary to feed heavily during the winter months. Cattle intended for early spring shipment would - ED.]

The Cruickshank Shorthorn.
The remarkable sales of Shorthorns held in Aberdeenshire during the past month plainly set read. It must be tolerably patent to one and all that the barrier of prejudice cannot be permitted to bar the way in Shorthorn breeding. There was a
ime when supporters of other types of the Short hime when supporters of other types of the Shortbulls," but that spirit of persiflage is fast becoming as extinct as the dodo. Let any intelligent breeder, pare the composition of the leading Shorthorn pards in England to-day with ten or tifteen years
ago. We find the Cruickshank Shorthorn at home ago. We inces it would have been heresy, years ago, to have regarded as their ultimate destination. This steady onward march has been accomplished chief-
ly by the foreigner's appreciation of the merits of y by the foreigner's appreciation of the merits of to foreign appreciation, first of all, that Amos Cruickshank owed the popularity of the type he
evolved. It was on behalf of the foreigner that the evolved. It was on behalf of the foreigner that the nterprise of two or three of our leading breeders. But what is really at the bottom of this per etual strife for Aberdeenshire Shorthorns? They r majesty of character, and on this score serious or majesty of character, and on this score serious
ault has been found with them. After all, however desirable it is to have beauty wedded to util ity, it is not a point upon which the practical
oreeder will be inclined to haggle. The perfect type of Shorthorn has yet to be evolved, and alquently weak in character, it has something which er. That is pre-eminently the function of the
Scotch Shorthorn, but it has been subjected to rather unwarranted criticism over its presumed inhank's idea to produce a Shorthorn that did not maintain the cosmopolitan character of the breed, nd Aberdeenshreing the milk away has no foundation in fact, so far as their type of cattle is concerned, although they claim pre-eminently to have atisfied aspirations with It is clear that even those from whom we might almost expect the bitterest opposition are gradnally seeing the fallacy of refusing to unite with end it is a matter of $\mathcal{E} s$ s. d. vs. either prejudice or policy. It is the most popular cross nowadays, and reflects advantageously upon both parents. It is essential, of course, that the mikring caparattention can scarcely be given to that function of flesh-
breed. But it is a mistake to suppose that bearing cows are necessarily devoid of pail-filling

## The Ideal Ayrshire.

Only those who have been on the spot, and who Only those who have been on the spot, and who
have had an opportunity of actually seeing it, can
form any idea of the care and attention devoted by form any idea of the care and attention devoted by Ayrshire cattle breeders to the "cultivation" of the various fancy points sought for in this brees. The
characteristic turn of the horn, the fineness of the shoulder points, the shape and placement of the udder, and a number of other points are all bred for
with a care that is really remarkable, Though (as with a care that is really remarkable, Though (as
in the case of most other breeds) different judges favor somewhat different types, the general characteristics of the breed are well defined, and are now
as well established as in any other breed. One of as well established as in any other breed. One
the most graphic descriptions of the ideal Ayrshire penned for some time was given by Mr. MacNeilage,
of Glasgow, in the course of a paper which he read of Glasgow, in the course of a paper which he read tural Discussion Societies. Taking as his type a five-year-old cow, at the time just freshly calved, in
one of the leading herds of the breed in Scotland, Mr. MacNeilage thus went on to describe her: This cow, a fortnight after calving, weighs 10 cwt . She measures round the chest, behind chest, from point of shoulder-blade to point of shoulder3 ade, 22 inches. She yields an average of from
30.31 lbs . milk in the morning, and $26-281 \mathrm{lbs}$ milk in the evening. She stands on moderately short legs, widely set, and fine in the bone, with a clean neck and shoulder, wedge shaped at top-that is,
with no superfluous beef and muscle; well arched in
the the ribs, and plenty of room in the chest. A flat qubed animal is never a good feeder, and consequently, never a good milker. The cow should
have a straight back, wide at the loins, with strong,
deep thighs and deep flanks; a small, thin, long
tail, rather than a coarse tail, as cows with the tail, rather than apendage are seldom good milkers.
latter card and ap and A thin-skinned animal, with a yellow tinge in the invariably proitabie in a good percentage of butter
supply of milk showing a supply or mised sho the dairy cow should be carefully
fatu The hed
studied -hlocky, wide between the eyes, and not too long between the eyes and the nostrils, and wide also between the nostrils. A long, narrow
faee is a common acompaniment of the narrow
chest and flat ribs. The horns should be chest and anat ribs. The horns should be widely
set, with an upward tendency. and the eye should
. by brightana ceear. The peculiar facial expression
and bright eye common to the good nurse of all and brig easily recognized in the Ayrshire, and is
species is ondiling index to her milking properties. Thest
an unform an unfailing index to her milking properties. These
points will be generally conceded as eminently
 some ot them can be shinulated, and the manufaccapacious and well-shaped; carried tight to the capacious and wow, and carried well forward. A
bellly, wide below
good fore vessel is an antost unfiling index of a
 seldom a good milker. A thick, fleshy
selways to be suspected.-Farmers Gazette.
alway
Development and Management of BeefBred Bulls.

## ay join modapaid. or misour.

Soune time ago I received a request to write an arrills from calfhood to old age. This 1 now do, with the undersmancribed limits of my own observations and experience, or based on well-anthenticated facts. 1 wish to connine myself for the
present to dealing only with that specially valuable present to dealing only with that spscially valuable class-buull selected to head experience are able to estimate, from the make-up and breeding of the
buil as a calf, the rank he is likely to occupy and his future usefunness. If vinced that a particular
calf is worth developing for use in a a pure-bre
herd, it should, in opinion, at first receive
plenty of prass in of sumod mincr is alk; also
its natural fool and will lay the best found wion
for future developmen and usefulun'ss. If the calf has been dropped in
winter, he should have more care than one com-
ing in early summer. ing in early summer
when our grasses and cli mate enable the dam to natural surroundingspermit in winter. Hence, a
nicely
balanced ration of grains and oil meal, nitell-cured hay, sheaf of gats, oat hay or bright,
well.ceured corn fodder, will make a fine combination, and the calf, should also know where to retreat froun a storm and have the comfort of a
dry bed, and where to bask in sunshine when the weat ther is fine. The disposition of the youngster
should also be studied. He may be shy, or forward and frolicsome, but, in any case, let him understand
that you are his friend and, if need be, his master. Kindess and firmness, with no fooling, will gen-
erally get a young bull on his good behavior better erally get a young bull on his good behavior better
than any other method that can be employed. also good practice. If he be an inteintent you, he
ster and some buil calveshave rare inteligence, he
vill very soon enjoy being led and exercised, as will lery soon enjoy being led and exercised, as
well as being curried and brushed. When given such treatment, he intuitively recognizes you an his
friend, and grows up under the environment of civilization and comfort. It, ase not give enough
there he a calf whose dam does
 mother" to supplement the deficiency. I also favor
allowing nilk to bull calves until they are at least six months old they become ton rough with their
 practice and sound economy to the a foster
mother ", wive them their mikk supply after they
have reached six months, and let the herdsman milk their dams. As weaning time approaches, the calf should he sn accustomed to feed that he make
iny procss will have little effect oxcpt to nake
himin bawl a little for a day or two. The feed at that time, and for some time afterwards, should be sup-
plemicnted hy an extra allowance of oil meal or plemented hy an extra allowance of oil meal or
pure rgound flax seed. From this point the young
bull becomes conscious of his own importance, and the recomestainingscious ortion of of his timportance, beenins.
When his services are called for he should be kept under hons servicuses are cas alled fors here and he should not
und expected to attempt almost impossible tasks. he expected to attempt almost impossibe tiapery
He should never be allowed to serve on slippery
gronnd, either in summer or winter, however olong ground, either in summer or winter, however frong
or hort the ears of his usefulnessare to be. From
abour this time he will begin to exhibit his characterist ics. The natural tendency of all young bulls
is to feel most contented with company. The best company for them in the summer months is in a calf. If allowed out at night in such a field, in such company, bulls will get enough exercise. A cool, roomy box stall is a very good place for them during the day. Here a bull can be so protected that fies will give little or no annoyance, but no hard
and fast line can be laid down, for bulls differ very much in temperament, disposition and tendencies. rain than others, and some need little or no grain
leed. eed. The animal's individual traits ought to be
closely studied, and unless the owner or herdsman can intelligentiy comprehend how this, that or the other bull should be treated, costly mistakes will happen. To know this, and have their confidence,
is most important. It is recorded of $M \mathrm{M}$. Bates that once on his way to a leading fair with his great
bull, Duke of Northumberland, while the famous bull was being unlooded at a, certain wharf, he he
slipped and fell on the gangway. His owner quickly perceived danger, which he thought could hardly
lin be averted. Quiuck as a flash he patted the Duke on
the neck, spoke soothingly to him, all the while the neck, spoke soothingly to him, all the while praising him ing genty to induce has fixed and the bull
wakness in waen unloaded all right. This surely showed great
animal intelligence and mutual confidence. Not animal intelligence and mutual confidence. No
long ago I had a personal experience with a bull long ago 1 had a personal experience with a buill
which will let speaks for itsel. The bill is a great
favorite of mine. I handed him when he was a favorite of mine. I handiled him when he was a
calf, and I believe he still knows me when I visit him. On this pariconer occasion caugh one ond and it bawled loudly. The old bull looked on, while a cow (not
the calfs dam) rushed toward us. Then the bull came forward, pushed the cow away and stood looking on as if trying to understand what Id was old fellow on the neck. He is a boll of rare intelli.
gence, and in disposition is as gentle as a spaniel gence, and in disposition is as gentile as a spaniel,
though he is rarely contenten unles with his
His feding quaities and hist tendeney to harem. His feeding quatitiese and his tendeney to
fatten are so pronounced that grain-feeding and
ew home at Independence, Mo., the herdsman was given very specific instructions to treat the bull the bull might get no advantage over him. Above all, the herdsman was warned that if he was ever
known to whip the bull his term of service would nown to whip the bul his term of service would
be at an end. Col. Vaile himself kept a cose eye on how matiters. were progressing, apt an close eye ese
nast making friendship with the Duke, but one day as the Coonene entered the barn, he saw that his valu-
able bull was in a towering rage. He called his
herdsman and asked what he had been whipping herdsman and askeed what he had been whilip hisg
the bull for. The herdsman denied having done so. the bull for. The herdsman denied having done so,
Col. Virle pointed to the long marks along the
animals ribs, which were undoubted testimony that animaisp ribs , which were undoubted testimony that
was told that heen administered. the herdsman was told that he could go to his house and get
ready to leave. When Col. Vaile was left alone ready to leall he began talking to him, but could make no headway in getting near him. Lat could
got the currcomb and, by degrees, managed to
got scratch him a little, patting hegrees, managed to speaking soothingly to him. By degrees the fiery
flash of the buls sees began to subside and the two were on good terms again, The Colonel then
attended in person to the bull until he found another herdsman. This man seemed to understand the bull perfectly, and they became friendly with each other from the start $\mathbf{I}$ might explain that gence and of a high-strung temperament, though quite at his ease when his surroundings suited him. Another side stady of bull character and how
 could be desired, but somehow or another he man aged to get a patent on opening gates, and, like
Cupia, he himost defled locks and bars. Tho moral to be drawn in this instance is that all bull lots or pase ures should have strong, secure fences, and a
vigilant lookout should be kept for any weakness in igilant lookout should be kept for any weakness in
hem that may occur through wear and tear, for if them that may occur through wear and tear, for if if
ever a bull manges to make his way out of ot ot or
pasture rest assured that he is not going to be very pastare, rest assured that he
easily kept in in the future
easily kept in in the future.
In conclusion. I shall, for the present, only mention one other phase of the interesting stundy of
how to care for valuable bulls. Several years ago agreed to visith and look Over the ramous bult,
Beau Real. This was
possibly two wears after possibly two years after yard exhibition, by
somehow or other. ${ }^{\text {be ol }}$ herdsman, who had and had had charge of him
could ont he induced
to let his faverite, who get wou fame for both, in fle h. tota
normal condition. After
 delicate ingury, I came Beau Real required more
exercise and less grain holstenn cattle at toronto indust
or concentrated f geed
This leads me to review the traits of character In my opinion he needed it The grain ration displayed by some noted bulls, and, incidentally, the manner in which they were treated. For instance,
until their later years the young bulls, Young untio theirn, later years earer and Goang Monarch, were victims of our high-pressure methods of piepara-,
tion for the show yard. To their credit, be it said, tion for the stow the test of this severely-trying
all of them process well, though al. of them suifered sut their
They sired oood tock in thin old age, but their
owners had to let up on the high-pressure methods owners had the the had made their rreat prize.
under which they
haed him alttle and show him under which
winning fame. "Bred him alittle and show him
a areat deal "whas what the late Col. Moberly once a greatd deal,", was what the late Col. Moberly once
said he wond do with Young Abotsburn. When
Whid
 reduced in lesh, becat that will heve an enduring
left behind him stock the
famay Monarch was fortunate in getting into. fame. Gay Monarch was fortunate in geting int
the hands of a firm that knew their husiness, and the hands of a firm that he was kept at high, pres.
though for some years he sura, he was in every other respect very carenual
looked after. Cupbearer's lot was not such a hapy looked after. Cupbearer's hot was not such a happ
one. It may be said of him that he was almost
 peddeod the quality of socock he was capable of sir-
to show the
ing but his son, Challenge Cup, and his daughter, ing; but his son, Challenge Cup, and his daughter,
Gwendoline have proven beyond question that Gwendoline, have provenated he would sire a prog-
when he was properly mater
eny of Shorthorn character which it would bee well to perpetuate. With regard to the temper or disposition of these three really great bulls, it may
be said that all of them were all the time on $a$ prolonged probation of good behavior. During all
their
long showvard career I Io not believe any their long showyard career 1 dio not beineve any
one of them ever showed the slightest bad temper. one of them ever ammittee of judges, might slight
A judge or are
and A juage, or a cers might wish to look them over, or
then, sigh-seve to get up when they were entitled they might have to get up when then tubmey were to every-
to or needed a rest, hut nity withon ever evincing to or needed a rest dignity without ever evincing
thing with graceful dign
signs of resentment. As illustrating a different character, as well as the results which mav follow
from mean, unkindly treatment, the 31st Duke from mean, und a study which, may, perhaps, be
of Airdrie affords a
When the late Col. Vaile purch ased profitable. When the late Col. Vaile purchased
this bull at wodurn, KV, he was warned about
the Duke's disposition. When the bull got to his
confinem
to him.




FARM.
Description of John Camphell's First-prize Farmhouse. Triok house la a two wastory cottage, built of white peocialy in view comfort, convenience, ventilation, ane economy or iabor. Ny wite gave much though With the rosult, The cellar is 7 foet high; groundThe water system in use probablygives as much
satistection as any other feature. Hard water is arried isto it trom the farm system, in which
there is a 00 -barrel tank, elavated 20 feet, and filled


RESIDENOE OF MR JOHN OAMPBELK, HIRST'PRIEE IN FARMHOUSE PLAN COMPETITION.

by windmill pump, to furnish the necessary pres-
sure. First, the inch galvanized-inon pipe goes under the foundation into the cellar, where a tap is
placed above milk box to water the creamers and furnish water for cellar use. A lead pipe continues
upward to the kitchen sink just above, and thence upward to the kitchen sink just above, and thence
to bath-room, where it furnishes water for flushing Sonk of water. from roofs is collected into a cistern cistern is placed an iron pipe with plug, which, when unscrewed, empties all water from the cistern into a drainage system placed under the outside cellar
walls and cement floors, and carried then to farm system of drains, emptying into a stream. Th waste water from milk box is also carried off in the ame way by turning a tap
forced by hand pump to a 6 or 7 wanted, it is firs outside the hath-room, in back-stairs hall, and up to the ceiling, so as to be entirely out of the way which furnishes hot water to kitehen sink, washstand nearby, and to tub and basin in bath-room Cold soft water is also piped to each point wher All waste water is conducted by a metal 4 -inch soil pipe, top of which goes out through roof to carry or for and into glazed-pipe arain, which in turn enters into ain from the latter prevents its flooding in wet weath er. Special precautions were taken to prevent any
gases from cesspool or drain escaping into the house. Just outside the cellar wall the glazed-pipe drain is deeply trapped, and at side of trap, further from the wall, a pipe is carried upwards to over the where it is carried away. The heating is done by a No. 4 hot-water boiler, and with a radiator of proper size in each room and hall, uniform heat is easily maintained in every partor que house.
Five to six tons of hard coal were found quite suf-
ficient to fully warm it during the past most seficient to fu
vere winter
vere wincer. quired special care in the manner of building which I will proceed to describe.
Beginning with the cellar, the walls were built are two feet thick. Floors are made of good ment concrete, 3 inches thick, and finished smoothl With an inch of sharp sand and cement mortar Celings are all lathed and plastered, and walls ar smoothy plastered on the stones. The partition
walls are of hrick, 9 inches thick. All doors and exposed wood are well painted. Windows are
double ; inside sashes are on hinges, and outside sashes are movable, with perforated tops. Hook-
ing up inside sash gives free ventilation in win-
ter, and the servens in summer keep the cellar sweet and wholesome. The thorough drining air of air. One of the special conveniences in the cellar is a waste-water sion the the eoil pippod floor, the pantry Moving upwards to the ground floor, the pantry with doors to close, and numerous drawers One rect into the breakfast room saves many steps daily. The kitchen, with woodhouse opening directly into
it, with cold hard and cold and hot soft water it, with cold hard and cold and hot sot water of the house most used largely lessear la labor. It is searcely necesterary to enter into the detaile
of ground ind farst
plans, It think, make all fairs as chear.
work done, and, with scarcely an exception, the instances a weragiven thas prices hasked, hand in some ortmanchio was performed
In conclusion, $I$ would say to farmers contem plating bailiding a comfortable home, do not begio without a careful preparation of material begoro hand, as there is a strong temptation to use inferior
JoHi
ualities if rushed. Victoria Co, Ont.
[Norr-The planof this house is such that it can be modififed in timensions, one of the rooms on ground floor used as a bedroom if proferred, and
much of the extra finish dispensed with, thus much of the extra finish dispensed with, thus con-
siderably reducing the expense.]

## Hints on House Building

It is said the AY FABMEREs wife
It is said that no one knows how to build a house untill they have built three at least, and as il have heiped it: Buit mosest of uny have mived not know hat others have erected, and we have wondered how they got so muct inconvenience into a house
If were having another house built I would have great many things done difeerently, The very first it goos. Thave noticed that if parto of the work is eft uninished, it is very likely to remain so for a
ong time, and Ithink it a mistake top at al or
most of the outlay on what may be called the fine most of the outlay on what may be called the tine
appearance, at the neglect of those little plain con eniences which are so helpful to a woman'sireo woman who is to live, work and care for the com
fort of the family ought to have the larger say ii fort of the family ought to have the larger say in
the planning of the house. If the good man wern the planning orn, stanhe or piggory, it is to be
building a ber
expected that he would know the requiremention expected that he would know the requiremente
betiter than the woman, in just the equen chings which help to make her work easier The next important matter is choosing the site
If favorable, build where the ground is high, hay If favorable, build where the ground is high, hay well to build the foundation well out of the groun and hanl stones and earth to fill up. This may seen
like a lot of work, but it will pay in the long ruy like a lot of work, but it will pay in the long rut
for a wet cellar is the cause of a good deal of sicl ness. We don't, as a rule, put enough thought an expense on the cellar, where so much of our livin
is stored Away for future use. It is better to hav one part for vegetabtes alone. If the furnace roo is on the suny sise, with good windows, it is a
place to keep those flower plants that you wi place to keep those foower plants that you wing
Kept over, or to start earl ones in the spring
When our cellar wall was built, we had an old ma around who thought he knew all there was a
reasonable expense were spared in getting first-class
material, and workmen were not stinted in contracts Brick walls are 14 inches thick, built with an inch air-space the width of a brick from inside The walls are heavily blind plastered, then strapped
with $1 \ddagger$ inch pieces, to which laths are nailed, and with lastor is inieces, to whish laths with wite lime.
Ground floor was frrst laid witth matched pine flooring, and when the finishing was done, a second floot or maple was laid over the pine. Opper fiors
are all single maple, matched. Most of rooms are are ail single maple, mate. . Din. Most of roms are
flished with white pine Dining and breakfast roomss are finished in oak Offce is finished in oak Fronth hall fly paisheniled. of birch and walnut, sides
and ceiling throughout being neatly panelle and cililing throughout being neatly panelled, and every pangel moloted. Front hall and dining-room havears Theer of inlaid oak and white maple are oined, rubbed, and varnished, bringing out the grain of the different woods in nicice contirast, and showing what a pretty
making font verang. is carried up to the roof, making it two -story. As door leading to the upper part is found very useful in giving perfect ventistairs. Left open, fresh sirn passes freely alomg uphails, and finding, fresh ain passes freelila, along the
above the back stairs above the back stairs, opening into the unused gar-
ret. 0 ther means of ventilation are by the flues ret. Other means of ventiliation are by the flues
and windows hung on weights. The storm sash are made with perfortanted tops, and the ororm sasal shit
at bottoms. That, with the raising of lower
sinner at bottoms. That, with the raising of lower inner sash and lowering of inner top sash, gives good
ventilation in the most extremely cold or stormy weather.
veranda. Veranda. There are fewer gutters necessary in
the roof, and the apparanace of the house is much improved. The shade afforded prevents so much
of the wail from being heated by the sun, making of the wall from being heated by the sun, making
the upper story a pleasant retreat in the evenings.
cost.

As much of the cost.
Asging cellars, and clearking away rubbish material, igcongeneliors, with the tarm farm work, it it wot pos sible to arrive at a very, correct estimate of cost.
But an approximate figure will be near about But an approximate figure will be near abou
$\$ 3,000$, but not to exceed that.
Of that amount the plumbing and heating system cost $\$ 600$. Con siderable could be saved in the plumbing and have probabyy as useful a job. We got in a por
celain tub and nickel-plated fittings throughout with marble washstands and closet fixtures to match. Without being extravagant, the aim throughout was to get a strong, substantial job in
all details. In letting contracts, the first consider ation in every case was the getting of first-class
BEDROOM
U1X14-9 $\qquad$ $114 \times 1149$
BED ROOM
$1109 \times 12.9$

## upgtairs plan, john campbelis housk

 woman, having never slept in that house before, and it is positively cruel for all the family to go upthe house is the one for that roome, where he can be on hand in case of emergencies. Don't have manysteps at the back door ; a woman goes in and out steps at the back door ; a woman goes in and out
many times aday; it inill be easier or her without
the esteps the steps, Don't build the house behind the or chard-the place for the orhard is at the thack or
on on side of the house. Having built the house, on one side of the house. Having buat and tastefully
see that the suroudings are neat and
laid out-trees, grass and flowers are about the laid out trees, grass and llowers are about the
cheapest things in the world. All that is ineoded is them repays for the work, and, as the women and
children on the farm have to work hard, it it in only childreno on the farm have to work hard, it is only
fair that the father should help them in making the air that the father should help tomem in.
home attractive and pleasant tod Mrs. EvERGREEN.
Huron Co.

A Portable Forge.
 for use in sharpening plow shares, etc. As our lan is stony we orten have to sharpen them every three miles from a blacksmith.
I wonld like if you or some of your subseribers oose, giving size and speed of fan, also manner o conducting the blast to the fire. Also any other hints which would be of use in constructing same. Your paper is exceedingly well liked in this sec
tion, whereit hasa large circulation.
oxford Co., Ont. [We shall be glad to hear from any of our sub-
scribers who can give information on this subject.${ }_{\text {ED. }}$ scriber

Secrets of Success in Pig Keeping. Mr. Saunders Spencer-and he ought to know-
lays it down that one of the secrets to suocess in raising young pigs ise to feed them often, and "give he advises giving them a mixture of sharps and meal, made into a mash with skiin mikk Mr. Spencer is a strong advocate of feeding pigs liber-
ally from the outset, and keeping them improving and putting on flesh from day to day. Bacon curers put a much higher value upon pigs so fed starved the next.
know about a house, and he said that the windows
should slide into the wall, so it was done; but it whe wrong, fort and dirt gets in the slides, and there is no way of getting it out. I think they should swing dhimneys ought to be built right from the cellar oor. It would be a safe and cheap way of ventilaion. By having openings left in them the foul air
vould escape, or, in times of severe frost, a stove could be set up.
Let the living rooms, the kitchen and diningcooms be the p pedroom, and that the guest chamber, in the front and sunniest corner, while the
dining-room is behind it. By all means, have one bednoom downstairs, but it ought never to be the
guest chamber - said guest may be a nervous


One of the Newest Swindles. A new swindling scheme that is being practiced
in the States is reported by one of our Ninnesota exchanges, as follows:
A stranger approaches a farmer with a proposiand bantering, terms of sale are agreed unon, the price to be. say, $\$ 10,000$; the stranger pays $\$ 50$ down to bind the bargain, and departs to return in a given time and complete the transaction. A few
days later another fine and intelligent stranger appears at the farm and asks permission to examine the soil, which is granted, and an apparently crithical examination of portions of the farm follows, farmer to buy his place. Proposition is matter states that the farm is already sold, or bargained for, and he cannot ell it again. The stranger regrets this, for he finds aluable for certain manufacturing purposcs, and therefore worth much more to his company than 0 anybody for merely agricultural purposes, and he concludes by asking how much he soli tee piace
for, and to whom. The last question is asked in the hope that he may be able to buy the farm from its hew owner, for he would rather pay $\$ 15,000$ for it o say that he does not know the address of the purchaser of his farm, but he hopes that when he returns he can be induced to waive the contract, whesent. The latter then gives a name and address in full, so that he can be reached readily if he can have the farm, and departs, expressing the hope as arrangement with the holder of the option so that he may come into possession of a place so desirable
for his purpose. Fhe rest of the story is soon tola. he frst byer app and figuring is induced to sur render his right to the farm in consideration of
$\$ 000$, which the farmer pays by negotiating his hort-time note at bis grest yood luck, he can have he farm at his own price, $\$ 15,000$, bat strangely onough he does not show up, but rumor has it that distant city having a splendid time at a first-class hotel. It is needless to say that both stranger wealculgted to deceive men who are more familiay
cal Tith the vaverage farmer, hence the farmer in this case should not be unduly biamed, but his fat hould be an efrimilarly approchived.

Horse Breeding for Profit.
Mr. Robert E. Turnbull, in the English Live Breeding for Faimeres, and What it Pays to Breed"
"In the United Kingdom there are at present "In the Unicod Reut 2,450,000 horses kept for business purposes and for recreation, and about 610,000 unbroken horses, or $3,000,000$ horses. About four-fifths of the whole number are horses that have been broken to
work on the land and for farm carting, and 1,415 , work on the riding and driving, and for trade purposes having regard to the large number of horses employed by railway companies, brewers, and in other businesses for heavy trainc, and for heavy traffic, and 715,000 for riding and driving and for ligh traffic.
"More heavy draft horses are required in this
country than any other description; that being the case, farmers who give their attention to this class
of horses, and who breed first-rate animals, can al ways find buyers who are prepared to pay a remunerative price for high-class horses suitable for rail the best type, that have been carefully reared and judiciously fed, can, without any disadvantage, be broken in and put to light work on the land when five years old when they are ready for sale, they amply repay the cost of their food by their labor. If a young draft horse has the misfortune to meed mas still be usefully employed on the land, where-
as, if a young hunter become unfit for the purpose as, if a young is bred, his services cannot repay the cost of keep. All experienced farmers are agree that, taking into account the value of the labor per formed by young draft horses, they can be price a the age when all horses than other breeds. It is true
a relatively lower cost
that a considerably higher price can be obtained for that a considerably higher price can be obtained for a well-bred weight-carrying hunter, or for a higs class carriage mon who has the necessary qualifications to ensire se there are ten who are capable of of the best class, there are ten who are capal, perhaps, in Yrerkshire and in some parts of Ireland, for one farmer who can breed a first-class weight-carrying hunter, there are fifty who can breed good wapl horses. In the or Clydesdale mares that are intelligent ly managed, gives, as a rule, a more certain return than capital employed in breeding either riadge or driving horses. Hackneys or carriage horses, and is born breeder, naturally endowed wite
that are necessary for success, chiefest among which
are sound judgment, pationce, and the finest pow ers of discrimination, he may safely breed the tini
of horse in which he takees the feenest interest of horse in which he take the Feenest interest
provided he has suitable land and binldinge. Thers provid depression in the marret for high-dalss hunt
tera tere. The demand for high-olass carriage horsea
exceeds the supply, and good Hackneye can bo readilis sold at at rimpinaratite prices- At the agri cultural show at Trentham lately, the Duke received, 100,000 horses, in value $87,000,000$, are an nually employed in connection with for hunting. The lave or sport shows no sign of diminishingiste' in this country. In the great business centery the number of weli-to-do people has lately largely incroaseses are ilikely tor soircumetances, good carriase to come to be moro
in in demand than ever. to breed cab horses or omnitus horges These an be more choeply hred abrood.
It does pay to break highelass horzes for riding and driving, and for argigittural purposes and heavy
traffic. In this fied home-bred borses of the best trame are unrivalled."



## DAIRY.

Iilk-Condensing Enterprise at Ingersoll, Ontario.
The dairy products of Oxford County, in the reputation in quality as well as quantitity This section of Western Ontario was practically the brthplace of co-operative Canadian dairying when
the older men of to-day were striplings. yeart or more ago some of the grandest dairy constocions ever hero in inanada took place in woodwere in their prim; he latter as a pioneer instructor, an idea so suvcessstally developed in later
years. A fow seasons ago Oxford County figured years, A A Pew in the incoption of Prof.
conspicously Robertson's winter buttermaking move
meent and it was here that an Oxford Zealands Dairy. Commisick, now New Roaianded the big Commissioner, com cheese FArakr's ADVodats readers will springing up of a great condensed-mil
 building, now in course of erection, to
be completed by January ls and ready be completed by January 1st and ready
tobegip operations on January 15 th next,
is twostory white brick, 100x90 feet, on a site covering 10 acres, one half of which was given by the town, along with free water supppied from a special reservoir
and troenemption taxtion. The pro
moters are Ohicago parties motera are Chicago parties, called th
St Charles Condensed Milk Factory Com St Charles Condensed Milik Factory Com
pany, of St. Oharles, Ill, where they have had experience in carrying on a large con-
cern of a similar nature. The building including machinery of the most improve
sort for the process, will cost about $\$ 100,000$ with a capacity for handling $30,000 \mathrm{lbs}$ of milk daily, the contract price to farmers
heing $\$ 1.00$ per 100 lbs. Farmers within five heing $\$ 1.00$ per 100 hos. Farmers within ive to make arrangements to produce the quan-
tity of milk to supply this establishment, be sides what is going to the cheese factories, promising enterprise is about $\$ 4,500$, and the com Pany expect to employ a statr of from 50 to 75 hands, and to construct a beautitul park in front and success. as have characterized its inception up
to this time. it will add another to such renowned enterprises as the Noxon manufacturing establish. the town is so justly proud, ,ng Company, likewse which

Milking Contests at the Dairy Show. One of the "novelties" at the Dair Show in of its kind brought off in connection with the show There were three competitions, one for men over 18登解 of age; one for women overe 18 ; and the this under 18 . The contsts aroused much interest, and the manner in which the work was performed was most instructive, the way in
which the competitors set about their business varying considerably. Some of the visitors ques
tioned the advisability of instituting competitions or women, as they argued that "milking was not woman's work. He must be admitted, however, to be able to know how to milk when occasion re. quires it. The laborer's wife, where a cow is kept,
finds it most useful, as also farmers' daughters and others at harvest
worth a good deal.

The Weight of Milk.
The specific gravity of milk, water being regarded This means that a vessel capable of holding 1, ,u00 Ibs of water will hold 1,coso llbof of miik. Skim milk
has, of course, a distinctly higher specific gravity
than whole milk, because the butterfat which is
removed in the process of skimming is the lightest
 of skim milk var
speaking,
weighing 10 Ibs.

Appetizing Rations.
Whatever makes the feed taste better or makes it more enjoyable to the cow, increases its value for milk production. Early-cat hay is best for the dairy cow, not only because it contains more pro-
tein than that cutlate, but because its aroma and tein than that cut late, but because its aroma and lavoring effect from the early cutting and caraftul puring of all forage crops increases their feed value
for milk production. Freshly-harvested and freshlyground grain is the most palatable to the dairy cown, and will give best results. Dairymen who grind feed, should grind often, as grain that has Often the diaryman has a larise qea quantityow of coarse rather a npatatatabe rough fodderss, such as coorn fodder and overripe or slightly damaged hay,
which he must feed, and has only a limited quanWhich he must feed, and has only a liinited quancase best results can be secured by giving the more palatable roughness in the morming, or with the grain night and morning and and
roughage as the last feed at night, to be eaten at oughaye as leasure during the night, or else pot in
the cows in she yard for midday meals. Palatabe feed
racks in the morning gives a contented cow through the
day and this contentment brings more milk day, and this cont kintment brings more milk, to throw them together into the manager and let
the cow eat at will. This method does not secure the cow eat at wik yield. You do not want your soup and pie served together on the same plate, and neither does the cow like this method of serving her
food. If all the feed stuffs for a neal are thrown food. If all the feed stufifs for a meal are thrown
together, the more palatabe are eaten first. In
separating and eating these, the others are

cross-bred guernsey-shorthorn cow, naict. of the championship in the Milking Test, London Dairy Show, 98 and '99.
udder indicating a a apacity of two to three gallone
but in the milking test ther avera but in the milking test her average daily gailong
milk was 4 lbs. 8 oz, while LLord Rothschild T Tad Somerset Waterlơ, znd, who was not placed bo lisp 4 0 , the period of lactation being the within two days, both having dropped their hase
calves in September last. The unregistered Shor caives in september last, Mr. Birdsey's Southcott Bel Fon lst prize in the test, with an average of 5 Bibs lbs. 9 oz milk in one day and an average of EF In the Jersey class the first prize cow by inspectio was Mrs. Greenairs cavee ard, in her lith yee but she was not placed in the thest, in which Ma 41 lhs 8 oz per day, and her milk was very rich of 10.00. In the Guernsey class Mr. Plumtre Ledy Ashurst maxe the best showing, yieldin 23 43. The champion of the show, however, was th cross bred. Guernsey Sherthorn . ow. Nancy, owne
by Mr. G. Lon. She gave 68 libs 8 oz. milk in day, an average of e3 ibs. 102 , and a butter yield of 2 ibs. 11 oz, ar aratio of 25.05 . This beautiful cow in fustrated in this issue, and is a model dairy co
in form os well as in performance. she won the championship at the same
repeated the record this year.

## Farm Dairying.

IBy Miss Christina Sto warto Oxtord Co, Ont, winner of hat prite A great deal has already been written on this
subject, but I will try to descrine as briefly as A
The Covo and Cleanliness. - In this, as in all other matters to deal with our subject intelligently we must begin at the beginning. In this case this
means the cow, whose food and drink should be wholesome and pure. Then in milking, and throughout the entire process of ma, ing, cleanliness should be strictly observed, as
Setting the Milk. As soon as poo deep cans, and set them in water at 2
temperature of 40 degrees for 24 hours; then skim off the cream, and while
ing it, stir it whenever fresh is
keeping this sweet until 24 hours before churning.
sufficient are the Cream.-Having obtained should be observed toripen it properily ; and just here II may state that a dairy ther-
mometer is an indispensable article for the production of fine butter. Theat the cream up to 70 degrees, and keep it at that temring frequently so as to have all ovenly
ripened, then cool down to 52 degres in summer and 58 degrees in winter.
a phurforated. Id strain the cream through
"mussed" over, and when the cow comes to eat them or produce the gratest milk yield. We like to feed our most palatatabe roughness and give this just be ore the milkers go to their meal. When the milkers come back from eating, the cows have finished
their first feed, and the less palatable roughness can then be given them. It will not then have been lobberedo on, and will be better relished and more of it eaten. This method of feeding requires time
and care, bot it pays
If the cows are If the cows aree given their rough feed in racks
out of doors, it will pay to put feed in their racks out of doors, it will pay to put feed in their racks
often, so that the feed will be clean and appetizing. Mangers, feed troughs and racks should be kept
clean and fresh from old, soiled feed, both as a mat ter of health and because the food in a clean man ger smells and tastes better.
The dairyman's rule should be to harvest feed in its most palatable form, and feed in the most ap
petizing manner. - Bulletin 81, Kansas nental Station.

Milking Trials at the London Dairy Show. The annual show of the British Dairy Farmers' Association, held at Isling ton, London, is probably
the largest exhibition of the kind in the world. It is not confined entionely to milking thials, but empoultry, pigeons, cheese, butter, bacon, hams, bread. honey, eggs, roots, dairy appliances, etc.,
which accounts for the rather starting number of entries, which this year totalled 7,741. The number of cattle entered was 2027 , and the eetries in milibing
and butter tests 16 . Shorthorns, which came first and butter tests 168 . Shorthorns, which came first in the catalogue, made some excellent records in classes was that the cows which won the prizes by inspection were not in the money list in the milkMr. G. H. Proctor's Bella, of Scotch breeding, a big-
framed cow, carrying thick flesh and a shapely
 cream. The operation of churning takes from 45 to
60 minutes, and when the butter is half the size of 60 minutes, and when the butter is half the size of
grain of wheat, Ilet it stand for a few minntes till
all all the granules rise to the top, then drain of the
buttermilk through a perforated dipper. buttermilk through a perforated dipper.
Wasking the Butter.-Strain into the churn as much asking, the a temperature of obooten 46 degreess as there was cream at first, turn 12 or 15 times then diate consumption, one washing would suff
for $\begin{aligned} & \text { nackage, } t w o ~ w a s h i n g s ~ w o u l d ~ b e ~ b e t t e r . ~\end{aligned}$
for package, two washings would be better.
Salting. -Then It take the granulated butter with a wood th ladle and place in a tub and weigh; remove to the butter worker, and sift througno
perforated dipper good dairy salt to the amount
 I or an an ounce per pound for package. Then work,
using a gentle pressure as it is best to preserve the using a gentle pressure, as it is best to preserve the
grain being careful also not to overwork it bat grain, being careful also by a certain number of revolutions. Then put in pound prints. I wrap them round neatily with good parchment paper
Marketing. -1 sell my butter to private customers, and to A. Beattie \& Co., Stratforor, and also ship some small p packages to a private customer in Mone
real, in all cases getting the highest market price. real. in all cases geting remarks be carefully followed I feel assured that nothing b.
butter will be the result of all efforts.

The Color of Milk
The color of milk is due to the butter-fat which exists in it in a state of suspension. The rest ore ofe
solid matter contained in butter-on an averg The about 8 per cent. - exists in a state the form of very small globules, and it has been advanced by such a well-known authority as Fleischmann that init were possible to remove all the butter fat globules
milk the remaining liquid would be almost colorese and transparent. This is the reason why very poor milk is so apparently "thin" and watery.

The New Superintendent of the Western Dairy School.
Mr. Archibald Smith, of Beachville, Ont, has been appointe,
Dairy
School, at Dairy School, at Strathroy, which will reopen on
December 4th next. Mr. Smith received his early training in cheese and buttor making from Mr. Jask F. Wiliams, or ingerson, a former instructor
and inspector for the Wetronto Association, Heot taking a very high standing, and Querwee, at Stict Hyacinthe, securing a firrst-class diploma as insies and creameries for that Province. He was ongaseas inspector and instructor in his cheese and butter factories, and after working for him two years, accepted the opsition of instructor or thinter
creameries in Western Ontario, and for the past season was engaged by the Ohesese and Butter As sociation of Western Ontario as their instructor both chesese and in buterer ractories. He was ap
ed instructor in buttermaking at the Guel hh Dairy School for the season of 1900, but at the request o
the Hon. Minister of Agriculture, resigned that po sition and accepted the position of Superintenden of the school at Strathroy, for the auties of whic
 structor on the stafind successfulu buttermakers in Canada, having and has managed a number or the largest creameries in the country successfully.
Mr. $\mathbf{0}$. $\mathbf{0}$. Luton, another member of the staff is n $n$. a number of years as a very expert
cheesemaker. During the pasts season he was employed as inspector and instructor in cheese fact
ries by the Oheese and Butter Association of West ern Ontario. If there are a sufficient number applications for the home dairy course, a compeceat that
Mr. Stonehouse Appointed Butter In
structor at Guelph Dairy School.
Mr. A. Smith, of Beachville, having assumed the cessary to make a new appointment to the posinecossar Butter Instructor in the Guelph School. Mr. Jas. Stonehouse, Port Perry, has been selected for the responsible position. Mr. Stonehouse was
formerly Instructor in the Home Dairy Department of the School, which position he resigned to accept
the of the management of the St. Mary's Creamery. Mr. Stonehouse had charge of the arrangementrior the
buttermaking competitions at the Industrial Fair, buttermaking competitions at known as a first-class buttermaker and creamery manager in Ontario. The Guelph Dairy School is to be congratulated on
securing the services of so able a man for an securring the
Instructor.

How Long Should the Milking Term Extend.
To the Editor Farmer's Advocatr: cow should milk in a yeer, A ten months. or that length of time is justly entitled to a rest; ny longer than that wefulness for another season. All dairymen have noticed how a good cow, that has had from six weeks to two months' rest, will milk as compared with another season when she
has milked almost up to calving, or practically not been dry. topping for repairs, and the cow is a machine com-
posed of flesh and blood for manufacturing her food posed dairy products.
Now, as regards continuous nousing during the winter, I am strongly opposed to it, as I can see
nothing in it but a gradual lowering of the cow's nothing in it but
Give them exercise every day, except on very
When I say turn them out, cold or stormy days. Wo to three hours at a time, but instead, from five minutes to half an hour, depend ing on the day. Leave the stable door open after turning them out, and let them come in or cheep awatch on them, and never allow them to stand
still and get cold while out, nor to remain outlonger than they seem to enjoy themselves. perature of $50^{\circ}$ to $55^{\circ}$.
It is the exercise during the summer that enables the cow to, in a measure,
stand six months' confinement.
If close confinement is good for cows, why not for human beings. Take, for instance, a out with the most perfect system of heatings work,
tilation, and light, and then the employesercise in tilation, and light, and then the employe exercise in eat, and sleep Would it be tried anywhere for one
the open air. Whink not.
month? I thin But cows are often treated in this fashion for
six or seven months, and I understand in some six or seven months, and cows are tied in as long as they are milking, and never let out for exercise. Central Experimental Farm.

## THE FARMER'S ADVOCATE.

Proportion of Butter to Milk. As in previous years, the milking trials and butshow held at Agricultural Hall, London the dairy were followed with much interest by a large section of the visitors. The several tests attracted large entries, and in some of them the competition for were divided into three separate sections one for JJerseys, a second for Shorthorns, and a thind for In the Jersey seetion the place of honor wensens to a seven-yearold cow, which gave 41 lbs 8 ozs, of equal to a pound of butter to every 16 lbs of milk, prize taker, a four yerar-old cow, gave 28 libs 14 ozs. prize taker, a four-year-0id cow, gave asibs. 14 ozs.
of milk, and 1 li. 1 orss. of butter, equal to 1 lb.
of butter to every 15 lbs of milk, Her total numof butter to every 15 libs of milk, Her total num-
ber of points was only 4.75 year old oow, which siection the 584 prize we we to to a silk in the day, and gave 2 lbs 14$\}$ ozs of butter, equal to a
 butter to every ${ }^{20.85}$, his of milk.
The top score in the "other breed" section wen to a cross-bred colwwhich produced the great quan
tity of milk, 684 bs, or over Git gallons of milk in thy day. Hor milk, was rather poor in batter fat, ai
she gaveonly 2 lbs. 11 ozs. of butter, equal toa pound she gave only 2 lbs. 11 ozs of butter, equal to a pound
of butter to every 24 galions of milk. This cow-Shorthorn-Jersey cross-gave the lowest per cent age of butter of any of the competitors In these tests points were allowed for the time of calving, as well as the weight of butter produced. calving, as weir ys elding the greatest weight didid not
so that the eow
necessarily obtain the first prize. As a matter of


MR, ARCHIBALD SMITH. Newly-appointed Superintendent of the Provincial Dairy
School atStrathroy, Ont.
fact, one of the cows in the Jersey section, which gave more milk than the winner, failed to

## POULTRY

Poultry Department of the Fat Stock Show to be a Big Thing. Farmers will have agrand opportunity of making try industry in December next. There is no opposition to the statement that there is money
tin fact, those few farmers who have in poultry; in ract, trasily ckennowledge that, properiy
keptan acount read hest paying department on the marm. The Fat Stock Show at London, December 1 Ith of the country, and such arrangements have been made by the managemenlor will be the best ever hibitempted in Canada. It will be an education for many who have long desired to investigate the subject, and the oppry is a proftable undertaking, but Breeding poultry is a prontabie undertaking, but thousands of dollars through reduced profits by ${ }^{2}$ want of knowledge how best to feed, the require
ments of different threeds, the advantages of fattenments of dime marketing at a season when prices are
 lectures being given each day at ottawa, and none
fessor Robertson will be up from Ottaw
better than he can give the requirements of the
British market. Experts, under his direction, will kill, pluck and dress poultry, prior to which will be
illostrated the method of cramming adopted in The poultry committee consists of four the best-known poultrymen in Canada, viz. Mesers. Bogue and McNeil, of London, Meyer, of Kossuth,
and Essex, of Toronto, who will be on the spot to and Fssex of Toronto, who will be on the spot to
give such information mas mo required.
The prize list is made und bo fowl, so that the uninititited all vay judieties of fres himsed fowl, so that the uninitiated may judge for himself money exceeds anything ever offered in Canada,
and will doubtless attract farmers from all over the country, especially as the entrance fee is only 25 in poultry, it will be the chance of a lifetime, and Che means of a considerabie addition to the income
from this important tranch of farm ife. Prize lists can be obtained from the Secetary:
Mrs. Jos. Yuill's Experience in Improving
Having haid conoinderable tom

Having had considerable trouble trying to raise chickens from eggs laid by hens which hid lati, all
winter, and having had my attention drawn to it occasionally at Farmers' Institutent meetings, 1 to it to the conclusion that if a hen laid well ail winter
 In the shell, but when the time comes or to to hatch
out it has not string th to epparate iselt trom the
sheil, therefore beocomes exhausted with vain en. I thought $I$ would try if something could be done
 set more than two humired eggs (my hens had hida
 ected wenty of ryy best pullets, which were hatchwould want their egge for hatching, and put those,
with two male birde, in a divienon of the eheep barn. The temperature was solow asto freeze water, bui
 henhouse was supplited with dust bath, grit, and
musing bag of sulphur was huging int hoithrougl
which they went out and in. Thir heads toucheci which
the bag every time they passed through the hole
and shook a small quanty of sulphur on their
 hhen I gave them a little better food, as I wishedi
have them layig by the flrt of March the the
ave them for breake it ilb. of clover cut Ane in a pot with one pint water, brought to anee, pala heas, shorts and 1ozo of ground meat in, a poin, poouit
the clover over and mix thoroughty; just have the mixture damp, but not wet. For dinnor I Eove being hung by a wire to the ceiling; also hang up
head of cabbage and a sheaf of oate When thi supply became exhausted, 1 removed them and pu up rresh ones. For supper they got one-hali gailon week of February, and ladid until thoy began to moutt in Augus, buring the summer.
I commenced eotting their eggs the eoond weok
in March, under hens which had liaid during the winter and had become broody In Muring the
 eleven live chicks, but in most cases every egg
brought out a live chick. The reports from those broght settings to were equally as satisfactory. They were the tirongest chickens I ever had. On
the evening of the nineteenth day after the eags

 two hens the 1sth of June, and the results were not nearly so good. The eggs required twenty-one
days to hatch; the chicks
dheth
thicter shells, and in oome cases had to be taken out. They
 stitutions My March and April male birds weigh
from 8 to $\theta$ Ibs. each, while my June birds only weigh am thoroughly convinced that to get good strong, healthy chickens, the eggs must he soved
for setting during the early part of the hend' torm of laying honest breeders are blamed for tampering with their hatching eggs before sendirg them out to customers, because the ressuls were poor, while
the reason was that the hens had laid too logg and
hre. Jos. Yount the reason was that
had expended heir
Lanark Co., ont.
Before being killed, fowls should be fasted for at least twelve hours; some go the length of keeping
them on empty stomachs for twenty-four hours. in France, where the breeding and killing of poul. try for market purposes has been deveiopea 00 ,
greater extent perfaps than any other countri,
ome breeders give the birds a drink or two of mily some breeders give the birds a drink or two of milk
during fasting, ${ }^{s}$ it helps to impart to the flesh uring rasting, as it helps to impart the the falues that theceliar whitenens which is

GARDEN AND ORCHARD. Ontario Fruit Growers' Meeting. The annual meeting of the Ontario Fruit Growers Association will bo held in Whitby on the sth
nnd Eth of Deecmber. A good programme is being

Intensive Cultivation in Horticultare. One of the most prymale raumund, own. One of the most prevalent errors into which the
horticulturists of the present day fall is the oceupying of too great an acceate; so much that in butititle attenction and cultivation, and the work passing through the eoountry there is mather. On that one can more eavily detect than the consequences
arisng from such practice. On every hand one seesa an armers and fruit-growers are pasing result, formers and fruit-growers are paying a heavy
tax upon land that is bringing them in little or no That
That the horticulturist of the future may be succesta, it is evident that great changee must those pangaged therein minstind undery a prointable hone tho gremest the smallest area. The using of as much land as one can spread himseif over dooes not tend to high cultivation, neither does it show good manage.
ment ; but the practioe is too commor. Quite often we see men who will make more money from a ten-ere lot than will his next neighbor, engaged in the sme industry, from fifthacres. This is ithe consequance of every inch of space being thoroughly
outivited, and not the result of "luck," as many a fifty the pere man would sammer has
the goop past summerer has been of a nature to show vation. During the hot, dry summer months those had the satiwo kept the soil thoroughly worked proper maturity, while those who had so much proper maternity, whin e that they could not get the
required work done lo lost heavily from the diflerent required work done lost heavily from the dinterent
frutits dropping in their early stages. In the small fruits such as raspberries and strawberries, freGoent cillitivation at ripening time is extremely
beneficial, ot proventing the drying-up of a very large ptroentage of the crop Oneof the greatest drawhec
large acreage have to contend with is the securing of sufficiont and proper fertilizers. This is a ques tion that is puszing the minds of all up-to- atate
orchardists, and far better have ten acres well fed orehardists, and far better have ten acres well fed
than a hundred of staryed land. The FARMER's Advocatre and other agricultural and horticultural
journals have long taught the principles of high journale have eng taught the principles of thigh
cultivation, and unlesss that hesson is liearned the
orchardists of the future cannot hope to be curcivariion, and undess that lesson is learned the
successful.

## QUESTIONS AND ANSWERS.




## Veterinary

periodic ophthalimi.
Essex Co., Ont.-:"I have a mare that gets a scum over he, eye or a mave a mare that gets a
about five weeks, and then it then gets better for
for again. What can be done for her, and
[Your mare issuffering from periodic oph halmia somelimes described as moon blindness, as it recurs every twenty-ight days, This is a constitutional
disease that is hereditary, and usually terminates in cataract or opacity of the crystalline lens, with permanent blindnoss The arttack usuansly comes on suddenly, without apparent cause, and invariably in the night The eye presents signs of weakness, the scale the face. The wrinkled appearance of the
eyebrow ater the acute symptoms have passed
 away is characteristic of this disease. The disease
is incurabe. having baffled the efforts of gall who
have endeavored to combat it. The local pain may have endeavored to combat it. The local pain may be soothed with warm fomentation, but no irrita-
ting materials should be made use of
ano anodynous lotion is all that can be recommended: drams; lincture of belladonna, 1 dram, distilled water, 1 pint. Bathe the eyes night and morning
with a palmful of the lotion applied directly to the
eye. eye.
CoLD ABSGESS AND SWELLED LEGS.
cold abscess and swelled hegs. READRR:-"I have a young mare coming 4 years came on that sof thacese a boout two months ago. It
came to a head and broke came to a head and broke, and it ran quite a Iot of madter, and I thought she would be better, as she
had not been doing well before. It seems to heal
up all right, but up all right, but In notice when she stands in the stable it swells up quitice large where stand hin the the
abscess. Please give me a remedy that will keep abscess. Please give me a remedy that will keep
the swelling down. When she has exercise the swelling nearly all goos down, hat comenes again
when she stands.
2. Please advise me of a remedy
to keep horses' legs from swelling when they stand
[There is no doubt that you have what is known There is no doubt that you have what is known
as a cold abscoss to deal with. Obtain the service of a veterinary surgeon, and suggest to him the odvisability of insergoon, and setonggest to him thime the the thin.
This, with warm fomentation, will no doubt speedily bring about reeovery.
2 Swelling of the hind legs of horses when standing in the stable is due to constitutional causes. A course of alterative medicine is indicated. If after one or two trials, the following will be found an excellent remedy. . Barbadowes aloes, powdered.
$1\}$ ounces ; nitrate of
 cum, 1 dram jreacle. sunficient' to form a mas
Divide into 1 dozen balls ; give one every day.] scour in caives.
Darryman, Peel Co., Ont.- - "What is the best remed for ssour in young calves?
Dijarth or seo scour, is generally the result of
indigestion or derangement of the stomach, caused


## bella

First-prize Shorthorn oow,by inspeotion, Iondon Dairy Show, ge. exhibited by mr. G. .i. proctor, durham.
by feeding too much milk at a time, or feeding it cold, in which case the milk does not digest, but surface of the stomach and intestines, which surdaces diarrrbea. To prevent, underfeed, rather
than over-feed, and always give milk warm. When than over-feed, and al ways give milk warm. When
scours are observed do not delay treatment long as scours are observed on thot troublo the more difficitit it
the more advanced the
will he to cure. First tive will be to cure. First, give a dose of castor oil, from
one to two ounces, according to age of calf and if a one to two ounces, according to age of calf, and if a
bad case, a half-teaspoonful to a teaspoonful of laudanum or a tablespoonful of paregoric. After the oil has acted, care must be exerciised to feed
only a very small quantity of milk at a time for a ouly a very small quantity of milk at a time for a
few days, not more than a pint to a quart three few days, not more than a pint to a quart three
times a day, and half a pint of lime water should be mixed with the milk. Lime water is made by putting a piece of lime in a vessel, pouring a little
water on to slack it and adding , more water stir waiklly and anlow to settle. the cloare liquito on top
is lime water. If the calf shows considerable weakis lime water. If thee eaff shows considerable weap-
ness, he should get a teaspoonful of whiskey, in a

madeira sth.
First-prize Jersey onw in Butter Thest and
Londin Don Dirr Show, 189.9 owned by mr. h. h. howard.wy
wineglass of warm water or milk, four times a day until he seems strong enough to warrant a with-
drawal of the stimulant. As a rule, if taken at an early stage of the trouble, the castor oil will, with
careful after-feeding give full relief careful after-feeding, give full relief. A new-laid very helpful in such cases, For calves of two months or older, a gill of raw linseed oil may be given, followed in an hour or two by a tablespoon-
ul of hicarbonate of potash in water. indigestion in calf.
L. E., Cardwell Co., Ont. -"I have a call which blorts occasionally, and sweats, behind the shoul-
ders. He is ary lare drinker, and I give him a feed have the same effect. He is growing very well,
[You do not state the age of your calf, or whe-
ther you are still giving him mill He is trouble with chronic indigestion. Give him a purgative of Epsom salt, say 8 to 8 oz dissolved ma a pive of
warm water. If this should not act sufficint warm water, If this should not act sufficiently,
repeat the dose in about 36 hours After giving the
dreat drench, do not allow any solid food untit the bowels bran and water. After purgation but a little dry getting milk, add to it about $\frac{1}{\xi}$ lime water. If not sode 8 oz; pulverized sulphate of iron, 2 oz ; pul-
verized verized gentian, 20z;
Mix and make into 24
powized nux Mix and make into in powders, Give a powder 3 water. Repeat the prescription unless a cure be
affected. if the calf is less than 6 months old affected If the calf is less than 6 months old, make the prescription into 36 powders. Feed
reasonable
quantitios of easily-digessed food of good quality. Soe that he has oxercise, and do not
allow him to drink a large quantity at one time
mpotent boar
SUrscriberk Two Mountains Co.. Que.:-"I have
a fine Yorkshire boar, now ten months past, and he will not serve a sow, nor pay any attention to one. I was advise to feed cinnamon and eggs, but wiil
wait for an answer through your columns before taking further steps. I was also told to use cantharides, but I am toid a toxic dose is required, so
restraind from doing so. Is he of any use? Shall
I castrate him?
it is would advise you to castrate the boar. While it is possible that age will have a tendency to overThe administration of a result is not probable. The administration of cantharides or other aphro
disiacs is not goo pratice in any case and woold
not be beneficial in this.

## Miscellaneous

standard for toulousk akisk.
SUBGcRIukR:-" Please describe, in the columns of your valuable paper, the particiluar points in judging Toulouse geese. Should they have a black
spot on point of beak, or not? iPlumage light gray, growing lighter until it
becomes white upon bell becomes white upon belly, the white extending posterior or fluffy parts; from a front view but orange. Bill, flesh orange; a black or grayish bean on end of beak generally, but the presence or ab-
sence of this mark is not a disqualifcation.l walnuts for plantine
ENQURRR :-"Would you kindly let me know and whe can obtain walnuts for planting this fall, [We have had price per barrel? ${ }^{\text {dificulty in obtaining an answer }}$
to the above question. "Enuirer"
 Rennie \& Co.,Toronto, and Thos, Beall, of tindsman,
or the postmasters at or the postmasters at Ancaster and Glanford, OOnt,
Will some reader who has the information asked for, write us?

MARKETS.

## FARM GOSSIP.

## Crops in the Eastern Provinces.

 The labors of both farmers and fruit-growers in the EasternProvinees
have
been rewarded
this jear with


 of a fricultural and horticultural products being propered for
the




 Noca Solitia-In Nova Scotia similar work is in in progrose
The Secretary of Agriculture is bringing together a very fine

























PEN OF PURE-BRED YORKSHIRE HOGS,

, ard ind ind grade or cross, most suitade for export baco
Trom tivis fatory was save ohoeses ap th tho date noferrod


















Huron County, Ont.
















Canadian Farm Exports.





British Cattle Market.







 per buiniol-



 Ton ter Dominion Oin iot in company. not poif foid iodily irie bribe chibl

Toronto Markets


 and
 Sill









 coil thitition-sin vorm same





tearling tamworth sow. First prize at Toronto Exhibition, 1890 *
owned by A. C. halliman, new dunder, ont.






PURE-BRED YORKSHIRE, BUTTERCUP 10th,

owned by h. J. davis, woodstock, on
思




Mr. Ironsides hes returnext from Winnipeok and report
 November nth, 189.

Chatty Stock Letter from Chicago.


















A Siege Baby.

In the merry month of Ma, 1 Isg, three bright:taced girls

 ant more han a year rovilousy Hork with which they were
 long akirn anca ve


 ing ine wis autite a girl, and very protty, with fair hair hang




$$
\begin{aligned}
& \text { athin in } \\
& \text { aniot } 19 \\
& \text { Hol }
\end{aligned}
$$


"Nothing, only that you have been eng without saying
 youseon aing Liony ",







 and.aggravenas a judge something's the matter," she declared




 have risen at Meerut, "t
 for us
 As Lady Mariory says, its not hasi in we were in

"Thin Mone hasked.










 Your news startied me tor anoment. Besides, atood deal may


## will Your darring loves you," she said, very softly, "and God

 They were heavy and anxious days which ollowed the When diseousion was abeoiutaly necessary; that the wives kept
 was wolle entire station there wero but two Eurpengs who
weronotimpressed by the ravity of the dangers which sur-
 $\frac{4 i s}{}$ his iovel 1 Bitile wifle, indy Masiory. For a weok or two they went on as gaing and dia not not asereron Lown; openy y laughing gat the fanatical hatred or or he aeativest


 to tar whim into farmes whose lurid glire would light the



 Tt that garrison was very weak, for part of the regiment-no





 women and inocent babies whose name will be uttered with longage lastanand is spoken- Nana Sahibh Rajah of p Bithoort:
man thinned the ranks of that devoted band -takion a strong stood o oneger shound or to stobldar, , phor yet even with

 OU Ut this point Mordiunts sourage had not forsaken him

 ever ho was borni a wish an that did not help thim-or her in tho lompt had to be made and they must make it with tee rese
 start wast morry so Charile," she said a few hours before the

an Indian nut nowle." he said in a tone of anguish ; "and never in

 said genty, with which he was compelled for the time to be



 hammook secured at the enasby pased thee one rope and you the other, Sahhib, it will make it much eator or the Mem.animent in stonishment "do von

 here extreme poiteress
ment.



 growieveren thought 1 should live to turn tail in this way,"
growlier to another as they passed out.






"Don't mind me, Charlie, you go on with the others," she
begrouthinty.
him,





 their party and found thockseleses alitle group of threen in






 parsich to a avid, while Morataund





 membering.ony that ther husband was disabled and alone,
 ralil Mrs Mondannt caught hold of the Bengalees hand, her




 you. Better not. 1 may have to go back a mile or more. But


 searhat for rank grass of the jungle and to to be lying helplese
ind lot






 minutes Mrr, Morodaunt fell asioep and slept with the soond



 there is not amoment to lose! Save Yourselijes dras the torriv

 Were
they heard had escaped in that directiong git of day faded away
But the dusk drew on, the last tirght quickly- as it doos in the East and the Sepops were obige the
 "Yount you won't leave me, Majid ${ }^{\text {" }}$ " she implored piteously;


 soiled by the adventures of the previous night and the hard-
shipo of nearly $v$ werl of





THE QUIET HOUR.

## A Christmas Revolution.

God, who registors the onp

 He
Horever!
sifle
"There is more selfish unselfishness in the month before Christmas than in all the rest of the year
together !" Johnnie jerked her long limbs up from together !" Johnnie jerked her long limbs up rom spot in eacc cheek. WVe started nervously, then
settled quietly to work again. It was only Johnnie spot in eacht seted $\begin{aligned} & \text { setk again. It was only Johnnie, } \\ & \text { and she often tired unexpected artillery off in }\end{aligned}$ and she often fired unexpected artillery off in
our midst. Yet we all knew it was Johnnie our midst Yet we ail knew it was Johnnie
who looked most fearlessly on the wnder side of
thing and wighed questions with scales that were who looked most fearles
things, and weighed quest
uncomfortably accurate.
uncomfortably accurate. "I think it is an awful shame, the selfishness we sew into our Christmas gifts!"
Johniie's cheeks grew redder, and we laid down
our work to listen. our work to listen. Our Don Quixote often charged
harmless windmills, but now she seemed to be tilthiarmess with a veritable giant.
"Tve been looking it squarely in the face, as I
lay here blinking at the coals, and the shame at my heart grew bigger and bigger. There's that cape IVve
been crocheting for Mamma. do you know how much selfishness has been worked into that? Three long weeks of it. My whole mind has been intent Onoarded every spare minutee, I never dreamed of
hoe selfishness I was crocheting into it, but this evening I have been counting up I have put off visiting irst visit since she was hurt. I have put of my weekly letter to Grandmother, and to-day a letter reached me saying she was hurt at my long
silence. I have refused Alfie, evening after evening, silence. Thave refused Alife, evening atter evening,
when he has wanted me to play chess, and to-dyy,
when I offered he said he didn't watt me. Tast When he has wanted me to play chess, want me. Last
when 1 offered, he said he dian
night I was pettish with Papa, when he asked me to help him with his accounts; and, to crown all, I
have been cross with Mamma herself, when she has have been cross with Mamma herself, when she has my work-a present for her ! It is such a horrid farce, this making everybody uncomfortable in order
to make them presents ${ }^{\prime}$. counhnies' cheeks were hot, and her eyes suspi-
ciously bright; but Idid not think of her;
Iowas looking into my own heart, with startled eys, from In my hands was an invalid sack I was making
for Auntie; a dainty thing, with trimmings of lace and ribbon. It would just match her blue eyes; but they had looked into mine after I had tucked her into bed the night before. She would not sleep for
hours, I knew from that hours, 1 knew from that feverish glow on her cheeess read in low, soothing tones from her little "Imitation of Christ." But she had not spoken the wish,
and I had kissed her, and hurried giiltily away, to work for long hours on a present rather have had, the gift or the restiful readings? Dare I look at the question honestly? There was the mumfler 1 was kniting for Alfie, when she teased me to take her walking. Ther whan Edith's work-bag. I raised my shamed eyes to Eith's face, as she sat across from me.
Her cheees, too, were consciousily flushed, as she For those slippers, evening after evening, father The three of us looked at other with shamed faces. Johnnie lifted her head with a little faltering laugh. "Is it not shamefuts it is the love that is worked into a gift that makes it precios,
after all, and when we are actually cross and selfish to our loved ones, in order to sit down and make them presents-oh, what a farce it is!
Thus was begun Johnnie's revoution. It was not annownced with gun shots and long declarations,
but was wrought all silently, by three conscience stricken girls. anxiously, at supper. "I ${ }^{\text {I }}$ Lish-but wou girls are all too bus, In,
rather wistfully. y, "I can yo, Mamma," Johnnie answered, prompt"Are you sure You have time, dear?" Mother
asked, eagerly. "You girls are so busy with your "Oh, the Christmas work can wait," Johnnie table at her confederates. of Venice, or 'Thalberg, or Monastery Bells'?",
Edith looked up brighty from the music table, with the looze sheets of the old-fashioned music he "Why, can you really spare the time, child?" so hurried with your Christmas work," But Edrew him to his big phair, where he lay back happily,
with closed eyes, as the first strains of Thalberg's with closed eyes, as the first strains of thaberg
"Home, Sweet Home" stole through the room.

After I had tucked Auntie into bed, and her
tired eyes had looked their wwistful good
dreight, I with her thin, nervous hand in mine, opened her beloved Thomas ik Kempis. Her eyes shone with wistfulness, even as she protested. "But you have
not time, dear ; it would rest me, but I know how not time, dear; it would rest me, but 1 know how, eager beu are to silence the seansitive lips with an kiss, my own were tremulous. "The presents are almost,
finished now, Auntie, and there is plenty of time." finished now, Auntie, and there is pienty or And she nestled contentedly back on her pillows. And sueh simplerer gifts than ussal were exchanged
Mour home that year. When the larger gifts, in our home that year. When the larger gifts, and our revolution explained, there was a merry
laugh at our expense.
But there were tears in
 needed to refrain from such "selfish unselfishness", and Father, looking contentedy at his worn old
slippers, said, softy,
key to true Christmas giving." you have found the
HATTIE Joor.

##  <br> 

## MINNIE MAY'S DEPARTMENT

Mr jear Nigges,
a fancy for collecting curiosities ing friends have other, and possibly you will be interested in hearing aion vae collections of other girls. These colare curious, others are instructive, while not a few are perhaps frivolous; butall are at least interesting
Everyone knows the littile schoolgirls, with their precioufs strings of buttons, picked up here and there, and the boys with their equally valuable (to them birthay aook. who hich every girl posesesed, and in whiche everybody was asked to write his or her
name? This fad for collecting is not confined to name? This fad for collecting is not conined to
children; everyone possesses it more or less. Monochildren; everyone anossesses auraphe are about the commonest collections, except, perhaps, stamps.
Considerable taste is sometimes displayed in the Considerable taste is sometimes displayed in the
arrangement of these They are cut out and placed A paretty and useful way of using autographs is to put them on tea-cloths. One niece has what she calls an Egyptian tea-cioth, on which are inscribed the
names of people Hhom she met whil in Fgypt
Another has a sofa pillow with the name of each Anether has as sofa pillow with the name of each
member of her graduating class upon it. Sometimes
 hillow is made of olored cigar-ribbons, collected from one's smoker cricends.
Here is a description
Here is a description of a whip collection : An mudary blacke and glossy, made of seaweed; $a$ long wooden -handled whip from Jamaica, made from th
 with a a herort wooden handle and nine leather thongs;
a long black-snake whip, used by the old-time South. a long black-snake whip, use by the old-times enouth
ern overseer, has lash and hande of braided rawhide.
Among the latest fads is that of collecting bag.
One young lady has speci1 mens from persons who have travelled in Ohina, Japan, India, New zeetang, and varied.
lection is reall interestiun
Another lad h has anumber of dolls.
Another raly has an numberof dolls- do not laugh my dear girls, you all had dolls too, once upon a,
time. This hiecohas splenid purpose in her col-
lection. Each doll comes from a particular country lection. Each doll comes from a particular country
and is dressed in the costume. of that country. Quite Dess," is it not, besides giv ing hintter hancy anumber of of valuabee specimens of hand-made lace. These are fastened on velvet., mak-
ing long wall panels for her sitting-room. Undering long wail paneis for sper ane shotograph of a a woman
neath each specimen is peasant of the country where each piece was made. There are pictures and laces from France, Spain, italy, Armenial, interesting collection.
One young girl has a very whimsical fad; she has
secured buttons worn by distinguished men, such
 Dicken scott, and many more. She intends to longing to musicians, ilitera
buttons, and actors ' buttons
Still another collection is one of butterflies, and another is of beetles. These are very instructive and interesting as well. and repay one for on's
trouble. One of my friend has a lovely collection of Canadian ferns. Who has not at one time had a hotbyan for collectis. old and foreign coins?
A young Bostonian has an odd collection of
pitchers. Several show the arms of different cities pitchers. Several show
and counties in England some bear a a legend or a
couplet. One dainty little flagon of silver filigree caume from Madeira, while a few grotesque ones
came from London. There is a green one with two faces. Standing normally, the face is very jolly, and has the words " funlill jug, overer the head. When turned upside down the face is drawn and woe-e-
gone, and the words are
ampty jup." This collee-
 one being only five inches high.

Another collector has a taste for teapots - costiy
and cheap, coment and beautifu. She has an ex
pensive teapot of S Sevres ware, a penny pot from pensive teapot of Sevres ware, a penny pot from
Japanese bazaar, a puzzle teapot-birds, animals
 Japanese mask, One is is the litesque biue ane beara right-angled pot of the coolie of Japan. Many are
decorated with monkeys, cats, dwarfs, etc.: in each case the mouth of the creature is the spout One charming littil teapot is shaped ike a
open and having a handle on its back.
A young lady who has returned from a course of study and travel in Europe has a wonderful collec cow-bell to a tiny one which she wears on her brace


 country. "In olden times there were fans for men for women, for young ladies, for children, fans for outdoor use, and for indoor use, fans for the married,
fans for the single, fans of awfal portent which came fans for the single, fans of awfol portent which came
from the Mikado and which told the receiver to pre pare for death. There were fans for winnowing grain, and for blowing smoidering charecoas embers
Into flame; and , inal|, a small fran such as is is laid
in Just one more description. One young girl in the United States has begun a collection which in time will be valuable. It is composed of patriotic em diesplaying the American and Ouban flags; othere showing the Union Jack and Stars and Stripes loating merrily in the breeze. Uncie Sams sieeve form a goody part of selections is is legion. One may vise my dear nieces in their collections to aim no so much at what will be unique or simply useless, ae at what will prove educative and instructiv

Minnie May.

## Recipes.

## cooking with honky.

There seem to be but few cooks that ever use honey other than in its natural state or strained. than as above.
Baleed Apples with Honey. Wash as many apore. Into the hollow made by removink the core, Pour a ilittle water in and a teasp when done ittle more honey into this, juice, and cook until
Honey Muffins, - Sift together 14 pints flour, 2 teaspoons of baking powder and a reaspoon of salt
Rub into the flour 2 tablespoons of butter ; add well-beaten eggs, 1 eup strained honey and $\&$ pint or nilk. Beat wel until thon gem pans in a hot oven.
Honey Cake, - Mix 1 cup each of honey and beaten eggs. Sift together 1 pint of flour with heaping teaspoon of baking powder and a litulue sali,
and stir into the above. Bake in a moderate oven or more.
Honey Ginger Snaps,-One pint honey, \&1b, of four minutes, and when nearly cold add a well. beaten egg and four to make stiff enough to ro
Into the liour put a teaspoon of baking powder.

Put the rette on the stove with two and ints of water in it. Get a medium-sized cabbage head, wash and cut in two. Take out the heart (or kettle. Prepare as much pork as you want for dinner and put in your cabbage. Next get a goo-
sized, white, sweet beet (red will do, but it is not quite, so nice) ) wash, peel and eut lengthwise in
four pieces. $1 /$ desired, put in turnips with the beet
 put in your potatoes and slices of \&quash. If the
pork is not salt enough, season with a pinch of sait, A red pepper pod is an
the potatoes are done.
crackling bread.
This is something like the corn meal suet cake of is stirred the scraps left from frying lard or "crackings" and baked in a hot oven. This bread is very people, much better than it looks.

Cherse pie-an ohio dish.
A cup of curd (obtained from sour milk by drain-
ing of its whey) is beaten with two egs,
a fititle sweet milk, and sugar to taste. Flavor with
namon and bake in a crust in a deep pie plate.

Chance for a Rest.
Coliector-"This account must be settled, Mr Shorts. It has heen running a long time.
"Well, let it stand awhile."

THE FARMER'S ADVOCATE.
Foundeid 1896

-Hidden Musictans.

The ynle-log burnt gayly on the hearth.



4-Double acrostic.
(5) a Prench weight; ;(6) to blame; (3) lying eloses ; (4) to dissect
substance: (8) nutrition.
Primals and finals name a body of men we are all proud

3-The ficret word of a well-known.motto.
4-Name of a noted general.


Answers to Oct. 16th Puzzles. -Neophyte (knee---fight), 2- (1) New Westminster; (
(2) Winnipeg; (3) Halifax ; (4) bind Frigate, dipper, lark, loon, rook, quail, wheat-ear, black baker. ${ }^{-1}$ Round, rice, duck, pigeon. lonely, slave, reindeer, bear, ${ }_{5}$ 5-Wilfred Laurier. 6 -(1) It may strike. (2) Killing two human beings. (3) One ioes fancy-work, and the other doges not hanany beings. (3) On
it can beall seen on a postage stamp. (5) When she is a bause

7-Innocents Abroad, by Mark Twain 7-Innocents Abroad, by Mark
8- Bordereanu
9-Basebali, lacrosse, and puzzling.


 Cousinly Chat.
"Williwin,"-Your second puzzle was incomplete, as you
did not ilve the third wort, and tin giving the answer, you
 thatis called for. There is no certain rule for this puzzle-on
 ot of new cousins now, have we not 1 nd will eventually win
Sila
 .as Dina"- -You are somewhat of a politician, I believe, bu
you are also a good solver. Poor Dreytus, how he has suffered ou are also a good solver. Poor Dreyfus, how he has suffered
Kruger."- Excellent work comes from this new solver,



## Is it I ?

A preacher in a certain village church once gave an easy lesson in Christian ethics from the letter of the alphabet. It was to this effect: "You say A lies, B steals, C swears, D drinks, F brags, G goe the only one of which you have nothing to say."

## IMCPORTANT AUOTION BALE OF <br> Imported Scotch Shorthorns

## City of Hamilton, Ont., on

WYEDINESDAY, DEOEIMBER 2Oth, ing at 12 o'clock noon
60 HEAD OF SCOTCH SHORTHORNS, 13 of which were imported during the present



> Catalogues will be mailed on application to

Auetioneers-
COL, F. M. WOODS, Lincoln, Neb
CAPT. T. E. ROBSON, nderton, Ont.
w. d. Flatt,

Ontario, Can

## DISPERESION SALE

## Scotch-bred Shorthorns

Wednesday, Nov. 22 , at my farm, 4 miles from fergus rill and Scotch-topped Shorthorns, consisting of 10 BULLIS and 25 FEMCALES.

The whole will be sold without reserve, as 1 am retiring from farming. | Catalogues will be sent |
| :---: |
| on application. |
| Terms of sale : | 12 months' credit on approved joint notes; 6 per cent. off DAVID REA, FERGUS, ONTARIÒ.


 which shent of Shorthor attention of parties looking for that class of stock.

GOSSIP.
co In writung to advertbers, mention che "Farmer's
Mr w DALE OF Shorthorns in sight. Mr. W. D. Flatt, of Hamilton, Ont., makes
the interesting announcement in our adver
tising columng that on December 2oth hde will ising columns that on December 20th he will
hold the first of a contemplated ser ies of annual sales of Shorthorn cattie from his wiaely.
known Trout Creek herd, at which he will offer the best half of the present herd, which
numbers 120 head. In this offering will be numbers 120 head. In this offering will be
comprised 43 animals which have been selected by acknowledged expert judges from leading
heras in Great Britain, and imported within the present Year, including the entire impor-
tation of 37 head now in quarantine. These
 red in the blood of many of the best herdsin
he North Country, and of noted sires which ave made the
lass of beef cattle which has evontion of a
lits way to worral faver by sheer force of usefuluess the
The Scotch Shorthorn, The Soctch Shorthorn, the product of men of
superior judgment and of genius , has solved superior judgment and of genius, has solved
the problem of early maturity and of material-
izing the greatest amount of good meat in izing the greatest amount of good meat in
suitabesesueraces, ata mininugo of cost, and
has set the standard
 hatt, thongh a comparatively young breeder,
has cauht the spirt of the timeen, and of the
leaders in this grand orusade for the elevation eaders in this grand crusade for the elevation
of the standard of the cattle stock of thisis reeat country, which or han olly contilinue of this bre great
and advance to highe grond in the compe
and yon thd adyance to higher ground in the compe-
tition for the best prices in the best markets
by a forward movement to improve the char ay a forward movement to improve the char
acter of its live stok product, and he has
shown commendable courage in risking his shown commendable courage in risking his
money and his reputation in the enterprise of
importing the kind of cattle that are needed
in or this purpose. a his venture he hae not has had the co-operation of some of of the best.
known judges in Canada and Britain and if
 of the most sanguine, it may be set down to the
fact, acknowledged blall whothe have gone over
the groun, the in the face of the
coentery
 mporters to secure the most desirable sort.
This and ot the want of wwill. or of heart to
apy the best prices that the pay the best prices that the prospects warrant, in his enterprise and, therefore. it is safe to
say that the cattle gong intot his sale are
among the very best that could be bought in
and among the very best that could be bought in
Britain within reasonable limits as to price.
The animals will be sold at a disad Britain, within reasionabe himits as to price.
The animals will bo sold at a disad antage to
The seller in regard to their condition, comin






 see that such are not sacrificed on the altar of
mean money. The
Hereford breeders of America at the late Kansar CGty sales showed
the spirit that ahould prevaily where
munity of interests is recognized, where pett-
 be a representative gathering of Shorthorn
breeders at the Hamithon sale, and an enthn-
siamme engendered that shall rekindile the old.
Sise time fire and be in harmony with the encour
aging outhook for trade in a line that is bound
to grow broder to grow broader as population increases and
the prairies are brought under the plow as the
hope ofthe older Provinces isin purebrebred stok.
ond hope of the older Provinces isin pure-bred stiok in
and in time mixed farming mut provail
the newer Territeries as well. Send tor a catp ogue of the fale, study its contents, and
prepare to participate in what promisestor be the most interesting event of
canada in the last two decades.
The polished tramp professing to be a stock
breeder and buyer, whose cheek was exposed some months ago in the FARMER'S ADVOCATK
is still, we are informed, getting his board and is still, we are informed, getting his board and
bed free bo imposign on stockmen who have
not read of his meanness, and it appears he is not alone of in the meanness, actice of his profession, as
he following he preter

 a heavy buyer. He stays 1 ng e enough to make
his intened victims feel that thay are ac
anainted
 one who identifles him becomes responsible for

## NOTICE.

Mrs. J. F. McKay, Parkhill, Ont. writes
iI have some very fine young turkeys and
Brahma cockerele Irahave some very fine young turkeys and
Bratha cockerels. As Id ono intend winter-
ing them, anyone wishing for god stock would
obige by calling soon or writing for prices."

Cunaite fuetion Silt 90 HEAD or regitened stock, at Maple clir


 R R REID \& Co. Maple Cur Morm, HiNOTTAWA. T. W. MedErmotr,
Prov. Auctloneer Herdsman Wanted. $\xlongequal[\substack{\text { single, steady } \\ \text { and } \\ \text { willing. }}]{\substack{\text {. }}}$

Knagement by the year with board.
 Both mult be well recommendid. Applyly by leter or
peronaly to
to DISPERSION SALE Maplehurst Berkshires. owing tomy meaing Canadi, wo ofero for quick
 English Shire and

CoserEnglish Shire and
Clydesdale Stallions,
Last mimoratation juat arrived Aug.




 EDWARD R. HOGATE CO
 ESTABLISHED 1864.

## HLLHRST FARM HACKNEY HORSES, SCOTCH SHORTHORNS, 

Shropshire, Dorset Horn, and Hampshire-Down Sheep.
M. H. COCHRANE, -om Hullhurst station. Compton Co., P.Q. HACERNETS

yiz
We have on hand geveral Hachney stallions both




## CIYOESDALES



 | tor sale at mod. |
| :---: |
| Sor one |
| Some of them in |




D. \& O. SORBY, GUELPH, ONT.

THE FARMER'S ADVOCATE.
641

Mesers James Rainit \& Son, of Wellman's


















 ooce ayresime cow










Mesprec































 won, accepit rev
never say die.

10 Imported Shorthorn Bulls

 H. CARGILL \& SON, CARGILL, ONT. cargill station and Post omoo on C. x. R., within hati a millo of berran

## 20 - Imporiod sentibl shorinorise-2 2 BULLS, 1 and 2 YEARS OLD; 14 HEITEE:






## DALEETY BROS. GLencos, ont.


in Canada.
 We have on hand weaninges yearolate, 2yearolde Ayraire bulat and heiferg trom it

ROBT. DAVIES,
om Thorncilifie Stock Fann, TORONTO.


A. J. C. SHAW \& SONS, thamesvilie, ont.
FITZGERALD BROB, MIt. St. Loole, P.O Ofeer for ale aix short

tit


## THORNCLIFFE

## Stock Farm

The largest stud of Clydesdales in "ion of all ages, "LYON MACGREGOR."


Stallions, Mares, Golts and Fillies or all ages, trom the beat blood in soothand and Now is she time to purchase a young coit and riime




SHORTHORN OATTLE and Lincoln sheep.
 J. T. GIBSON,

DENHELED, oms
Shorthorns and Leicesters.
 and Dunan Btanley $=1$ lest
Trom imported toumataion. DOUGLAS.

.W. C. Edvards Pine Grove

 Ayrshires, Jerseys,

Shropshires, Berkshires.


 SHORTHORMS Fon ritm
 SPRINGBANK FARM.
 SPRIIGHURST SHORTHORIS

The tamous sire, Abbotstord =1916=, and the crack young ehow boll, (imp.) Knuckle
Dister (72933, head the herd, which is largely of Crickshank blood. Twelve good young bulls (some toppers), anda chice election ot ter station B. T B mit mile from tarm. R. H. SMITH, John Miller \& Sons, brovgham p, O. OFFER FOR SALE. ${ }^{4}$. Imported Clydeedala Stallions. 10 Yearing shropehiren Rams, 3 of them imp. . . . PRICES REASONABLE Claremont Stn., Pickering Stn., C.P.R. G.T.R.

SPRINB BROVE STOBK FARM


T. E. ROBSOII, Ilderton, Ont.
 Shorthorn Bulls and Heifers in good health and fine growing condition.
simoge Co.t.
Coldwater station.
SAMUEL DUNLOP.
Eany, Ont.

FOR SALE. Six very choice Shorthorn bulls, from 9 to 15 mos,
old Anumber of southdown and Leicester Rams
And Berkshire Pigs. Ind Berkshire
Head, Ont.


Greenwood P. O. and Telegraph Office,

 17 imported COWS and HEIFERS 22 home-bred COWS and HEFFERS lany pot them trom impored onerp and by in


HAWTHORN HERD OHER-MILKIN shonthol
 FIVE SHORTHORN BULLS


## S


 BOMIIE BURII STOCK FARM

 Min
Maple Lodge Stock Farm
ESTABLISHED 1854


 and

ALEX. W. SMITH,
om MAPLE LODGE P. O., ONT.
F. W. STONE ESTATE, guElph. ontario





Ingleside Hereforids


One boar six months old, and choive sows
two months to a year old.
H. D. SMITH, om COMPTON, QUE.

GUERNSEYS.
 reasonable prices. A few heilfers can be bpared. Addrese SYDNEY FISHER, ST. LAMBERT OF ARCFOST 36943 whose sire was 10 Per Cent.; dam, St. Lambert's
Diana 6951. . 0 official test, 18 lbs. 6 ozs. in seven days A few choice young buils and heifers rich in his hion
from deep and rich milking dams, irom deep and rich miking dams. for sale at moderat
prices
Sunyleaberalin

PINE RIDGE JERSEY HERD Has descenants or anad Two Hundred Per Cent, with
Handred Per Cent and
a grandson of the great Adelaide at the head. Two athoine soung butll tor sole end a few females. No
WM. WIILIS \& SONS, o New market, Ont. Glen Rouge Jerseys. WILLIAMM ROLLPH, Markham, Ont.. offers
twelve Jersey Buls and Heifers (yure St. Limberts),

Jersey Cattle zact wix pox MONEY II YOUR POCKET. Mrs. E. M. Jones, Bor 324. BROCKVLLE, OIIT., CIII. brampton Jersey herd.


Offering thinioe young Buns and DAVID DUNCAN, DON, ONTARIO. Deschenes Jersey Herd

 Octama, 1898.
R. anada Central Fon
R. \& W. CONROY,
DESCHENES MLLS, OUEBEC

Oh, YeS! $\begin{aligned} & \text { We sell Holstein Bulls. Sold } 7 \text { in } \\ & \text { May. Have } 12 \text { now on hand; oldest }\end{aligned}$ right. Write for particulars. Mred right or female Croest Crossing. Ont., Oxford County.
HOLSTEIN-FRIESIANS
A few choice cows and heifers now for sale, mostly Kol Dred to the butter bull De Kol Ind's Paul D
Dee my herd at the big fairs.

The Big 4 at Brookside Tetherland Hengerveld
 We want to osell 0 cows and heifers, and 20 young
bulls, bred in the lines above mentioned. Write, stating exactly what you want. Maple Glen Stock $k$ Farm Special. For immediate sale, Quality Tops Holstein of rich breeding. Blood Best.
Offer., wine a re, prizes Ninners"; others bred to bulls or rich mearit, ranking
in age from one to eight years old. Also bull

Galloways © Shropshires 2. $\begin{gathered}\text { BULL CALVES by the sweepstakes bull of ' } 98 \text { at } \\ \text { Toronto. } \\ \text { ewes and } \\ 20 \text { ram lampanhires } \\ \text { we }\end{gathered}$ T. LLOYD-JONES \& SONS, burford, Ont
HICKORY HILL AYRSHIRES.



## FOR SALE.


 Boar, 1 vear old ; 2 Boars under one year, aleos Sows,
pairs not alin. Plymuoth Rock Hens and Chickens a few fine Cockerels left.
J. पUIL AYRSHIRES FOR SALE The kind that can speak for themselves. Size
 Thei. Fine frem Napoleon of Auchenbrain (imp).
dams were shown laseairn heiters. Five of their
dall at Toronto Ottawa. Also a few good cows. No culls sold.
 PLEASE MENTION FARMER'S ADVOCATE,

Ayrshire Bull Calves of 1899
 ROBT. HUNTER
 GHOIOE AYRSHIRE BULLS
 W. W. BALLANTYNE,
 AYRSHIRE CATTLE.

 Estate James Johnston,


 Cor preses, eta All ilimemationadiz. Manager for estate of Jas. Johnst Robertiand Farm. - COMO, gUs. KUROPEAN ADVERTISIEMENTS.
W. W. Ghapman,

Seoretary of the Natlonal Sheop Broed-
ers Assoolation, Sorrotary or the Kent or Romney
 and lato Soerotia Pedigree Iive Stook Agent, Izporter and
shitpper. All kinds of registerod stoolk personany selected and exported on come misston ;
answere.
adder
Addross: FITZALAN house, ARUMDE Cables - Sheope strand, LONDON w. W. FAMOUS ALL OVER THE WORLD ALFRED MANSELL \& CO., LIVE STOCK AGENTS AND EXPORTEL
 J. E. CASSWELL, Nushemm breeder of Linooln Long-woolled Sheep, Flock No. 46
The flook was in the possestion of the present ownert The fook was in the poosossion of the present ownert Hreat-grendather in with, and has desoended directe

 The Danesfield Pedigree Stock IMPORTERS desirous of secaring selections or I either shire Down sheep should inspeet theste stod


 MR. COLIN CAMPBELL.

$$
\begin{aligned}
& \text { BSTATB OPHCE, } \\
& \text { DANESFIELD, MARLOW, BUCKs. }
\end{aligned}
$$

who will be happy to make arrangements for inspec
tion, or to quote prices.

Soutuown For Sale Sheep-ษー Huntlywood Farm, Beaconsfikid. Ewee and rams From this flock imported and hom
bred animals from the celebrated flocks ot His Royi

 Province of Quebec,, or by letter to Box 2292 , monn Shropshires, Tamworths, American Bronze Turkeys.
We keep on hand a full line of each to supply our W. S. Hawkshaw \& Son, ${ }^{\circ}$ Glanworth, Ont.

Shropshire Rams and Ewes
 quality. Scotch shorthorns and Clydesdal
horses
lorve numberse by moderate prices, and in

ROBERT MILLER,

CANCER $==$
F. STOTF e JURy, Bowmanvme, Ont.

THE FARMER'S ADVOCATE.
Provincial Fat Stock Show.
At the sita







 addresses, making use of the carcasses as
illustrations explaning the requirements of
the markets. and pointing out desirable and
undesirabte arcasses



 and packed. An expert trom Prot Roberteon's
department will bepresent and haventexit
bition a coop of biras being fattened by the



 and packed as they should be for shipment.
Incubators, brooderg feeding pens bone
年 crushers, and other utensils will be on exh
bition.
Dairy.-In the dairy department the com-Doiry.-II the dairy department the com-
petingcows will be intheirstalis be p. monn
the lith. A oream separator wil be run by a
 soos in charge of the Yarious judging rings
and block teots. are as forlows.
I. Hobstill
Iobon

 Ingersoll. Hectings.-During the time the exhibition is
being hel. the following asooiations will hold
their annual meetings in the Farmers Pavil-
 Monday, Deco officers; reports of committees;



 pork and pork prod cots, addresses by judges
phejudges will bee phected
to bive reasonse for awards nade by them. Any




 made by them, Any person wishing to ask a
quastion of a jude may do soby presenting
samet to the secrotary, in writing, some time
befo






 ustitute eseason, and or whor are addresses de-
be present to attend the varion
liveren, their expenses to and from the show

 good from Dec. 7 to 10, inclusive, are arranged
for, and may be obtained in the usual way. CHAMPION Cow AT ThE LhD show, Mr. Long's
In the milking test at this show,
half-bred Guernsey and horthornco., Nancy, half-bred Guernsey and Shorthorn cow. Nancy,
inlustrated in this issue outstripped everyi
thing. This
hivery and fine cow large and well
and appearance giving evi-




 in the ingseetion and milking classes, The
other wishers were Mr Wimpetts Shorthorn
ond Ayrhire, with an average of 56 lbs. 13 ozn, and Ayrshire, with an average of
and Mr. Merry's with 50 lbs. 13 oz.

AAhton Frontuiow Cotswolds Galore.
 $\stackrel{\circ}{\text { in Cotswowds WE HAVE to oFFER }}$ 100 RAM LAMBS 50 EWE LAMBS, Seleeted from Snell and Militer bred eeves, and by
Snell-bred sires,
, rrom inpported foundtion. GOT STOULD8.

John I. Balsdon,
SINHIGROVH BERKSHIRES AND GOTSWOLDS. We can nupply indy, in


LARGE ENGLISH BERKSHIRES.

PINE GROVE FARM HERD OF LARGE YORKSHIRES.

 JOSEPH FEATHERSTOM, Streetsillle, Ont. PLEASE MENTION FARMER'S ADVOCATE.
 BALSAM, ONT


If You Are
In Want of the followiog frat rogisterod stook, niz:

R. H. HARDING,

Suima moner EITil. IHercil
 OHIO IIIP. GHESTER WHITE PIGS
 - x. E. Bownan, Berthe, unt wave Ghester Whites write motor
 tombis. Jos. Galilite BORMHOLI HERD IUP. GHESTER WHITES.
 AVOH HERD OF CHESTER WHITES
 - henry herron, avon, ont STRATFORD BROS, BRANTFORD

Spring Brook Herd of Tamworths.

 A. C. HALLMANN. NEW OUNDEE, ONT Chatham "ose Tamworths


White handired Thaworth and Improved. Chester


 H. GEORGE \& SONS, Crampton P.O., Ont

Are You
 CHRIS. FAHNER, crediton, ontario. Litle's' Patent Fluid" will destroy the infeo
 NO DANGER! SAFE, CHEAP, EFFECTIVE.



Robert Wightman,

james a. Rusbsinsip.
Whiloat the Boikwmanvil. Fair a member



















## NOTICES.






 Yention so be bela at Ingersoll ont. on
 the amount or \$150 in cast, beside seoveral













 Americio have commencod ifro in a humbe
way and have made their fortune throuxt








 30doloras ind interested as to how speculations
are conducted, can get intormation and mar


VOLLMAR'S PERFECT WASHER





Horse Owners! Use remio Balsam 4, (1)


BANRERS AND BROKERS. GEO. SKALIER \& CO., GONSOL. STOCK EXCHANGE

## 60-62 Broadway, New York.

LOTS OF MONEY

 titroa aro interated to know how peroubi
 yon rge
Chal
Uusal Gorverame runtelpal and Rallroel
 stay at

## HOTEL LELAND

The Leading Hotel of the West
 W. D. Dovelas. Prop., Wianipeg, Man.

The Proof is In the Gures
 $-2: 3 A S T$ CUTS BY ALL PROCESSES LIVE STOCK A SPECIALITY.
alut dealurs or
W. J. MITCHELL \& CO.,

Chenist -m WINNIPEG, IIAN
 METAL EAR LABELS Used by
Record All Lillecitioioneck


 NGGA MAOHINE




## STILL RNOTHER BERUTIFUL Basememernil Thorolal Cement.


barn of thomas hartiey, near norwich, ont Size of Basement Walls, 50 feet x 68 f feet $\times 9$ f feet high.
What hir. hartley has to sat about thorold cement:

 mend its ise to my brother firmers

works, as he thoroughl
Respetrally yours, Dealer in Thoroughbreed Holistein Catte.


 sulimimut tubias siom
frai prat foumphet adites ESTATE OF JOHM BATTLE, Thorold, Ontario.


THE
NATIONAL
Craam Separator
FOR USE IN FARM DAIRIES

 mation为



 and


THE CREAMERY SUPPLY CO.,

GUELPH, ONT.

mational. somo. ponano powe. The Raymoind Manufacturing Company of Guelph, Limited, Guelph, Ont. please mention farmer's advocate.


 C. A. BRODIE'S shorthorns

Mosty every section in Ontario has its own greater crodititas a live stock sooction thativen esda, Unt When we ran in upon Mr. Brodie

 ments, complere in detait for their gevelo.
 sidereen to be in a very enviable posituon,
looking over the farm and heras wo foun
thing things in excellent form, our attention bein
more
more especially aireocea to the bunch of wenty

 Scotch-bred dires had played an important par
in the founding aud buiting pup the hord





 chaser a handsome returr upon his investment
Ammony the young bulls wero many line oung
animale, ana as space will not allow us toente
 Bright Slamp, a son o, sittyton stamp, an
out on GGy Lhs 0 oli, is one tot those show
thick















Gatalogue Printing our Specialty.
Many of the bet Catalogues in Candea are

London Printing \& Litho. Company, Ltil. London. Ontanio.

Persiatic Sheop Dip mod Animal Wasth. A NON-POISONOUS LIQUDD "DIP."

Kme Tloke, Kins Red Lice.
Greatly Improves auallty of For Horses, Cattle, and Pise. Removes an thaeeth. Thoroughly

solv ar ali 50 cents rat ont.
apeolal rates in ingeor quantitices.
made oniy by

## The Pickardit Ronimev Bo.

 limited.```
STOUFFVILLE, ONT.
```

BOYS FOR FARM HELP.




 10DITYTOPAY! =3


 1 Grinding Rings go four times

 T. L. PHILLIPS: men

646

|  |  |
| :---: | :---: |
|  |  |
|  |  |


|  |
| :---: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |


NIMMO \& HARRISON, Business and Shorthand Gollege,
Cor. Fonge and College stroets, Toronto

Enalurged premises and increesed number of tencor, | erse evening. Call or write for tree prospectus. |
| :---: |
| and |
| OOD |

 Students enter any time Increased teaching
star perthebest that can be hai is given. Write
for perticulars H. M. KENNEV, PRINCIPAL, WOODSTOCK.
 Nearly 40 Years of Success. This College offers young men and women the very
hit hesitavantage in a good Business or Shor thand
Bduction Send highestion Send for handsome prospectus to
Eucotion
R. E. GALMAGHK\&R PFinclopat.
Hamilton, Ontario.

Western
Dairy School,
STRATHROY, ONT.

 attention will be given to makers and others why
want instauction Send at once for circular and
forms of application to

ARCH'D SMITH, Superintendent Dairy
Strathroy,
Sht.


The most modern-from new and improved patterns. Durable, Powerful, and Efficient. Send for Catalogue with full description:

## $\Longrightarrow$ Root Pulpers 4 ? 꾸um St Slicers.

Improved Roller Baarings. Power or Hand Machines. Pulping or Slicing Cylinders. ALL MODERN IMPROVEMENTS
WILL BE FOUND ON THE WILL BE FOUND ON
Maxwoll Machines.
SEND FOR CATALOGU
FULL DESCRIPTONS.
EPPSS COCOA
GRATEFUL COMFORTING Distinguished every where for
Delicacy of Flavour Superior Quality, and Highly Nutritive Propertios. Specially grateful and comforting to the only in t-1b. tins, labelled JAMES EPPS \& CO., Ltd.
Homcoopathic Chemists, BREAKFAST
EPPS'S COCOA
IT PAYS TO ADVERTISE N THE EARMER'SADVIPATE Ontario Wind Engine and Pump Co. (Ltd.)

## COCKSHUTT makes <br> Pulpers and Slicers

That have no equal. Side wheel or cylinder.
Write for particulars, and ask your dealer for
Cockshutt-made Goods. They are the best.
COCKshutt Plow Co., Limited,
Brantford, Canada.


 tor or FREE bok
will be thad that you know bout
om THE JONES-MULLEN CO., 396-398 BROADWAY, NEW YONK. ...THE...

## MACHINES

 That Made America FaMOUS.

The Deering Ideal Binder is the Binder that all competitors try to imitate. There is none just like it, nor any as good as the DEERING IDEAL.

Call on our nearest local agent and examine the many superior points, and be convinced.
It Pays to Use Deering Machines.

## Deering Harvester Co.,

## Main office and factory

CHICAGO, U. S. A.
ermanent brancn houses Toronto, Ont. Montreal, Que Montreal, Que.
Winnipeg, Man

Tolton's No. 1 Double Root Cutter.


Pointe of merit: 1. To change from pulping to slicing is but the

work of a moment. 2. There are two separate wheels, one for pulping
and the other for slicing. 2. and the other for slicing.
3. The united force of both wheels is always used
in doing the work in either capacity. 4. The hopper is between the wheels, and does

The only Double Root Gutter Manufactured. TOLTON BROS., - GUELPH.

## GOVERNMENT

 ANALYSISLaboratory of Inland Risiminue, Office of Offichal Analysi, Konareal, April 8, 1896.
"I hereby certify that I have drawn, by my own hand, ten samples or the ST. LAWRENOE SUCAR REFININE OO.'S EXTRA STANDARD GRANULATMED SUGAR, indiscriminately taken from ten lots of about 150 barrels each. I have analyzed same and find them uniformly to contain :

> Yo contain : $99 \frac{90}{100}$ To 100 per cent of pure Oane Sugar, with no impurities whatever."


Write tor our tree catalogue. om STAMLEY MILS \& CO., Hanlitol, Oifinio.
The Razor Steel, Secret Temper, Cross-Cut Saw




|  | ROGERS' <br> MACHIINE <br> Is a genuine good article. Onyears, and it has won 12 gold years, and it has won 12 gold |
| :---: | :---: |
|  |  |
| ears' experience. References Alfred Stone, Guelph; Jas, Hun |  |



The beLL organ \& pIano co., LImited, guelph, ontario.
"Money Saved is Money Earned."
WHY NOT SAVE THE PRICE OF HEATING YOUR HOUSE by using up your rough wood in one of our HilhornWood Furnaces
This Furnace has been on the market for the past fifteen years, and has given the very best results. DURABILITY is attained by a proportionate arrangement of weights; EFFICIENCY by means of the immense radiating surface, and EASE OF MANAGEMENT by provision for easy cleaning. Send us a rough sketch of your house, and we will send you estimates and advice.
wive wa. GLARE BROS, \& CO, Pasta, ont.
Sod howstaypers say that Blue Actor beylon dea bides being the best is by far the mote economical. Fry it. Queension Cement Best and Cheapest for Walls and Floors. . .

The Dominion Report of Mineral Produceton for 1898 shows that the farmers and stockmen of Canada used during the year MORE QUEENSTON CEMENT
than the combined output of all other Canadian manufacturers of Natural Rock Cement. Ask for prices, or for estimate of cost of any kind of concrete work.
OUR SYSTEM OF VENTILATION
is being adopted by the leading agricultur-
ists of Canada and the United States. Fully
covered by letters patent, but to our patrons
we make no charge.

Isaac Usher Son, Queenston, Ont.

## Easy to Manipulate

Where the mowing has to be done on rough or stony land one wants a Mower that can be easily handled. The Levers and Foot Lift on the

## Massey-Harris Line of <br> Mowers

are so convenient to the driver's seat that any range of adjustment can be readily obtained with but slight pressure. A boy can drive and handle these machines, the Levers are so easily manipulated.

Massey-Harris Co.,Limited, -m Toronto, Canada.


2640 Cutters for 1899, with 2200 sold at this date, is a record we are proud of.
During the past thirty years the Canadian public has learned that McLaughlin Carriages and Cutters are always reliable, strictly first-class in every respect and right up to date.
OUR PATENT HINGED DASH IS A GREAT INVENTION.

