Vol. XXXVII. WINNIPEG.
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out arairie fire ; wis
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JANUARY 6, 1902

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hicago Live stock Träde in igo
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The OUIET Hour OS8IP

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Ontario Winter Fair Prize List of 1901 -
notices
advertisemients
PUbLISHED TWICE A MONTH, at WIWMIPE, manitoba.

MANITOBA.
No. 541


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can
affect $R$ heullatism with but
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folly to take them. You must get the (1) My reme of the blood, even in the that,



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ter. Let me send you an order for the





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Canadian Airmotor More than this: It will "hustle" for you all the
year around. Ask your neighbor who has one. ONT. WIND ENGINE \& PUMP CO. OM LIMITED. TORONTO, ONT. Manitola Agents: BALFOUR IMPLEMENT


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## 75 Head <br> Scotch-topped Shorthorns.

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The herd was established over 30 years ago, and is well known west; has been handled on common-sense lines, and is noted for constitution, substance and utility.
D. S. MACDONALD, Auctioneer, gGrtage la prairie, man.

WALTER LYNCH, Proprietor, WESTBOURNE, MAN.


Voı. Xxxvit.

A Bright 0utlook

How to Farm in the West.
Baby Beef for Winnipeg or Local Markets.
 "ection with agriculture on this continent during
hic year which has just closed is the revival of livestock husbandry.
In Ontario and the provinces down by the sea, In Ontario and the provinces down by the sea,
live stock is rapidly gaining in importance and mopularity, as evidenced by the successful fatlions from over seas and the continued upward tendency of prices for animals of real individual
merit. All down the circuit of the great fairs. and at the sales throughout the States of the Widdle West, reaching a climax at the Flatt sale III November and the International Live stock arostion in Chicago in December, evidences The great. wheat crop of our own countr: would, a few years ago, have becen a decided setarising, by demonstrating the comparative cast
 stock, buildings and equipment, or of working all
the year romul. Now, however, with the ex-
 Hanchty successful system of agriculture by enaling everyone to procure seed stock, erect suit,r otherwise, and fencing, dividing the farms wicts which, irom lack of water or other natural auses, are not well adapted to a gencral line of Dut will admit the necessity of treating land that has been cultivated for a number of years in some Nay which will inexpensively furnish humus or etaining and mechanical condition of the soil, matter how much fertility it may yet possess, mather conditions. Unquestionally the readiest vay of supplying humus, especially where the area aceding down to grass. Any variety that suits eavier the root growth the better. The decayfise grass roots not ouly increase the available aking up and retaining moisture, keep light. aking. Seeding down to grass is generaty dispacing
We take pleasure in directing the attention
wher our readers, both old settlers and new, to tho
series of articles begun in this issue by Superin
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$\qquad$
$\qquad$ new settlers, a constantly-increasing number of vocate" Anything that helps the ow sottor Atowards success benefits every other resident. and we expect that many experienced farmers will add ting of their of this series of articles by contribucordance or not with the views expressed by others. We shall be glad if new settlers (or
others for that matter) will freely ask questions er state difficulties they are experiencing, so that Mr. Bedford has consented to Jead off in this series of articles, and from his long experience. us much that is most useful, but he is far ton West, and these articles are not intended to be
$\qquad$
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To Make the Drumsticks Tender

Chicken or turkey, no matter how the fowl is to tough sinews unremoved. A marketman will task every housewife ought to know how to perform herself. Buy a fowl with its legs left on. leg. one at a time, of course, in the left hand With a sharp knife in the right hand cut ver not any doener Inside will he found ar skil tendons, there, being eight in each leg. lying snug through the dark meat they run away up into the leg, well into the upper joint. With a strong wire
skewer lift each tendon separately hold the chicken firmly, and pull. If the chicken is young it can be pulled by a slight effort. If the bird has
seen several Thanksivings, all the muscle that ean be put into the job will be remuired, but it is
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$\qquad$ pull, a strong pull, and a pull ald together ween the emmediately the proup of shinine white tendons
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 Winnipeg and local towns of the West
spring months when the frozen meat done and before grass beef can be ready. selecting early spring or winter calves that are in good flesh in the fall, feeding then generously til about the midace ond then putting them on liberal of Februars gradually increasing it towards spring, the youngsters, at about fifteen monthes old, (an be made to weigh 1,000 or 1,100 pounds, and being In this connection the following item from the Farmer's Gazette, of Ireland, is of interest. young all who make a specialty of finishing off months of age are aware. it always pays to treat calves generously in the matter of feeding. 1n well supplied with such foods as are equired to keep them steadily improving from the date of hirth until they are fit for the market. It may a number of cases in which it is studiously served, and in which the results obtained more than justify the expense and trouble gone to. We
know one successful feeder who, as soon as his calves are weaned-even when they are on th sest grass-commences allowne of concentrated foode (calke corn), and continues doing so right through the year, steadily increasing the allowance as the win ter anson comes on, and, as a conserpuence, getting the animals to emerge in the spring in the sleek, plump en eld, and which is in gratifving contrast with th appearance presented by so many of the young stock reared in those parts of the country where The animals are put off with what they can pick wisp of hay or other fodden during hard weather In the case to which we refer, the calves are kept sult that when they reach from 18 to 20 month oring they are Of cource it costs a bit to food thom up the this stage, but when the fact that fully a year is Saved in the time refuired to fatten them, all through his, hands while the ordinary feeder is for the extra expense incurred, and leaves a sul-
$\qquad$
$\qquad$ starving them on years of age, and practicall Preventing Abortion
$\qquad$ most satisfactory results in preventing abortion Chinosol. Ile says: an "outbreak of abortion in cons, which had been irevalent for several seasoms amongst the herd Directly a cow aborted sho was removed to a
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Hoor in the stioct was serainowl
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THE - ${ }^{-1}$ ARMER'S ADVOCATE and Home Magazine. the leading agricultural journal in manitoba

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## Mr. Lister on Canada

 Many readers of the " Farmer's Advocate"will remember the visit, a few years ago, to Canwill remember the visit, a few ycars ago, turer of centrifugal cream separators, Dursley, ing a most careful enquiry into the varied resources. That he made excellent use of his observations is now apparent from the Gloucester to hand. By special invitation, Mr. Lister delivered before the Gloucester Chamber of Commerce an able and comprehensive paper on Canada: Its Commercial, Agricultural and General Importance to the Empire." He reviewed the extent of U.S. competition, staple industrics, ore and steel enterprises, agriculture, tariffs, and the splendid opportunity which Canada presents to settlers. While he admitted that its vast re extent, it was to-day the most advanced and best ceveloped of all the outlying portions of the British Empire. That the ties which bound Britam and her colonies together were real and the fast three years. "Notwithstanding this." permanent bond is the bond of commerce, and only we allow our national prosperity, either throush military aggrandizement, neglect of education so diminish our purchasing power that we are nu
longer the largest customers of these colonies then. and not till then, shall we find them ready
to declare their wish to separate from the mother-

## A Hustler.

Manitoba Dairy Statistics The statistics furnished by the Department Agriculture regarding the output of butter for
the Province of Manitoba during the past year show very satisfactory figures. The production of cheese has been, however, at a standstill. T report reads ?

The season of 1901 has been the most suc-
ful season in the history of the dairy industry of this Province. The conditions throughout the season in that part of the Province lying west of the Red River have been most favorable for the production of butter. The pasture came on carly plentiful rains kept it in splendid condition until the creameries closed in the latter part of Octo ber and early in November. The increase of dairy
butter has been 31 per cent. over last year, and the average price has remained about the same. showing a correspondingly large increase in the net value. The output of creamery buter hat crease of 96 per cent. over last year. The aver age price is about $11-5 \mathrm{c}$. lower than last year,
but the net value has greatly increased. There have been few drawbacks to creamery industry and the generatifying. There has been very little increase 'n the output of cheese, and the average price has been a
little over $1 \frac{1}{2}$ c. below last year. The conditions little over $1 \frac{1}{2}$ c. below last year. The conditions
in the cheese districts of Manitoba were such as to diminish the fow of milk during the entirc
season, which is the only accountable reason for not showing a greater increase. The quality and make of cheese has greatly improved, and fewer complaints have been receiyed of this year's
work than of that of any former year in the history of this industry.
A steady growth is predicted hy all interested a tendency is to be noted in this direction throughout the entire Province.'

| District. | Quantity. | Average | Total |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| North-west | 502.590 76.50 | ${ }_{\text {l }}^{\text {13, }} 1.33 \mathrm{c}$. | \$ 666,99424 |
| orth central | 300,900 | 13.8 c | 1,524 20 |
| uth central |  | 13.25 c . |  |
| Eastern | 778,260 | 15.8c. | 122,965 08 |

Province................ $\overline{2,748,090} \overline{14.04 \mathrm{c} .}$ \$397,540 82

$\$ 837,96569$ Total dairy producti................... $\$ 926.31401$
the numerous little creameries established all over The mumerous little creameries established all ovel
the Province, the production of farm dairy butter goes on increasing rapidly, showing 50 per cent. at the same time, the average price is not half a while creamery butter depreciated in price over :a cent a pound.
given for dairy butter is about 1 conts lower than for creamery hutter, which is about the cost of Makine in the small creameries. So that it seems
that many fammers' wives prefer to make up their for the creath, doling all the faten for could get Surely this is not hecause the womenfolk on the
farms of Mantoba have not enombth work to do without making hutter: there must he some
$\qquad$
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$\qquad$
$\qquad$ In vieys of the importance of the dairy 1 utter mblustre and that if continues to srow co mor
countries and the best interests of the industry, as pointed out by so eminent an authority as rof. Ruddick, is in the centralization of creamminimum, what is the use in spending such proortionately large grants

Agricultural Societies' Annual Meetingor The amnal mectings of the local agricimturat lished in the local press, been fairly well atended, and most of the societies seem to bee in comparatively good financial circumstances. The Portage and Lakeside Society, the oldest in the with are for the past two years, in connction have been very successful affairs and largely at ended. Judging from the reports, almost as popular and largely attended as the annual fairs. At some of the meetings grain shows were rain of various kinds, and at one societyles of ou, a grain and poultry show was held. These exhibits do not seem to have been very successdecided that in future the show would not be subdivided, but that all classes of exhibits would be shown at the same time.
One of the most complete and interesting reports that has come to our notice is that of the sumes society, as published in the $\Lambda$ ssinidic director's report deals fully with he brath of the work of the soctety during he act. Very great satistaction is expressed at lying on the work it is suggested that instead of supplying nly one fudge to fudge all classes of live stock, ne for ther stome supplica, horses and be required to stock, and that the judges should oe required to explain the reasons for giving $\Lambda$ strong point is brought out in the report in connection with the allotment of
grants, which is worthy of Government Ne quote as follows a shate of the moted by the Government for distribution The amomit they thmmselves raisel the previous Thus, a sonciety having raised $\$ 500$ the previous hat had only raised the mimimum than one This is right enough if the society is a genuine with horse-racing associations and is kept principally as a means of drawing a bir crowd dolls, to spend as much money as tossible consideration of an agricultural show other any sufficient to a certain extent to aid as blind and when such an organization is able, by means in as horse-racing fees and licenses from fake sidethe tural sogicty entitles them to, thus lowering " It is time to protest and remest the Department to recognize only such receipts as are thus do instice to other societies that attend to fulfill their destiny from a legitimate agricultural All Sick Fowls Should be Killed.

afford to keep sick fo

$\qquad$
vovery or a return and even then
chances of recovery or a return to usefulness.
at lenst, are very slim. When allowed to rum
(ont. the time and money expended for nostrums
to cure thom are besomid the value of the fowl.


Mr. CHARLES THOMAS, LAUDER, MAN


The Live Stock Conventions joint meeting of the Executive Committees Ind Swine Breeders Ae Breeders and the Sheep nipeg on the 12th of December The meetin Winnipeg on the 12 th of December. The meeting was
well attended, there being present McGill, Neeparva. James Bray , Mersurn Barron, Carberry ; W. G. Styles, Rosser ; F. W. Brown, Portage la Prairie ; J. G. Washington Ninga; S. J. Thompson, V. S., Winnipeg Messrs. John Traquair, Welwyn, and James Yule, will be held on February 18 th and 19 the being the week of the Bonspiel, when single fare return way lines.
The sheep and swine Breeders' Association will meet on 'Tuesday, the Pure-bred Cattle Breeders'
on Wednesday, and the Horse Breeders' on Thursday. The Dairy Association also holds its annual meeting on Thursday. And the annual Win-
ter Poultry Show will be held in Winniper duriner ter Poultry Show will be held in Winnipeg during the same week. the way of a live-stock judging institute, which it is proposed to hold on the afternoon of each day.
when representative animals of the different wheeds will be introduced, and lectures upon them will be delivered by some of the best live-stock Curtiss of owne continent-such men in or Agricultural College; Prof. Grisulate, of the Dominion Experimental Farm staff, Ottawa: 1)r A. G. Hopkins, of the " Farmer's Advocate"
staff, Winnipeg; the Live Stock Commissioner, staff, Winni
and others.
These practical object-lessons dealing with the characteristic points of the various individuals fit, not only to the breeders themselves, but to all faymers interested in any way in live stock. At the evening sescions each day, foint meetin the City Hall, at which addresses will be delivered by some of the best available agricultural speakers on the continent. The imperative need
of an agricultural college for the Province will be one of the subiects receiving a large share of the appointment by the Government of exper judges, etc. The Winnipeg Exhibition management fair at least a week carlier that last year. as th

## An Angus Champion.

the Editor "Farmer's $\Lambda$ dvocate": appears a letter from Mr. Hugh McKellar on least, very misleading statement, which is calculated to damage the breeders of some of our beef breeds of cattle.
Mr. McKellar says a "perfect Shorthorn is the type " of "shape, form and build " required for
export to the English market. Now. I have nothing to say against the Shorthorn, and there is no doubt that the improvement of that breed has done more to raise the standard of beef cattle throughout the world than the improvement of any one other breed; but, as Prof. Shaw told us
at the Winnipeg Industrial this last summer the Scotch breeders, whose cattle have done so well at the block, are rounding off the corners of their
animals and approaching nearer the Polled Augus
model.
If, as Mr. McKellar says, the "/ perfect ShortIf, as Mr. Mckellar says, the "perfect short-
horn is the type," how is it that at Pittsburg Fat
Stock Show, held last month one Anrus steer sold for $\$ 25$ per 100 lbs., live weight, and 13 Sold for $\$ 25$ per 100 lbs., live weight, and 13
more for $\$ 21.50$ per 100 lbs.. and yet 16 more
from $\$ 20$ down to $\$ 11$ per 100 lbs., while there from $\$ 20$ down to $\$ 11$ per 100 lbs., while there
was but one Hereford sold in the two figures was but one Hereford sold in the two figures
( $\$ 11.25$ ), and not one Shorthorn sold over $\$ 8.50$ And, once again, on Nov, 18th, at the Stock-
yards, Fast Liberty, Pa., a steer (sire, Angus hull ; dam, Hereford cow) sold for $\$ 200$ per 100 lbs., or for $\$ 4,380$, as he weighed close on 2,200
lbs. (Breeders' Gazette, Nov. 27, 1901). It is also fresh in the minds of most of us (Angus brceders, at any rate) that last year at
Chicago the Angus steer, "Advance," grand Champion of the show, sold for $\$ 1.50$ per 1 b . on the hoof, and that Clay Robinson \& Co. sold a But it may be said that these are not English markets.
Well, in 1893 and 1894 we find Mr. Clement

§five-horse ; teams plowing.
Manitoba. the early nineties, at which all of the leading
milking breeds competed, an Angus cow won the milking breeds competca, and Angus cow won the Since writing the above, the report of the Chicago Show has come to hand, and again we find that in the grand championship competition a Hereford and two Angus were in the ring, the this iudgment the judge. Mr Peter (an Fnglish man imported for the occasion), said. "It is unfortunate that three such animals should be required to compete for one ribbon." No Short Welwyn, Assa.
Editorial Note.-Had Mr. Collver when with ing the above, seen the report of the 1901 Smithissue, he would have had a still heavier charge of

The Itinerary of the Agricultural College Commission.
The members of the $\Lambda$ gricultural college Cont mission that have returned from their visit astic than States and Ontario are more enthustural college for Manitoba. Leaving Winnipeg the first week of December, the deputation, which consisted of the rarmer inembers of the Commission, Messrs. George H. Halse, Brandon; J. S. Millar, Manitou; Harry Irwin, Neepawa; and Harvie Simpson, Virden, visited the North Dakota College at Fargo, where they were received by I'rof. Worst and Prof. Shepperd, and shown every atgood work that baing men impressed with tho tion. Their next-visit was to Minneset Agricul tural College ot St Anthony Park, where they were take in Anthony Park, where they Vircinia Meredith, who is branch of the seh there showed them girls the Department of Domestic Science, which has been so wonderfully developed at the Minne-
sota College. This feature impressed itself
strongly upon the mem strongly upon the mem-
bers of the Commission as one of the most the upbuid and helpful in the upbuilding of home The Wisconsin Col-
lege was next visited. It is located at Madison, the capital of the
State, and here Profes-
sors Henry Ss, one of which, " Benton Bride," brought him showed the members every attention. The mare Scotland Y, $\$$, in prizes alone, and in 1897, nificent buildings and the practical short courso (Jan. 20th issue), sums up the situation thus: In going through Chicago the meryboreat interest. Naturally, breeders of Aberdeen-Angus cattle stock yards, but, unfortunately, were visited the are overjoyed at the result, and as a beef breed In 1899 again the champion at Smithfield and Birmingham was "Ju-Ju of Glamis," an Angus
heifer owne by the Farl of Strathmore, and so
on ad in initum." Perhapi Mr. Editor, you have had nearly
enough aly the " breed that beats the record,"
hut Latid hardly conclude without enumerating but hom hardly conclude without enumerating
its principal good points, which may be placed in the following order:

Good constitution.

4. High price of the finished product in the markets of Great Britain and the U.S.S.I may and, it is only a question of time before they will It is a fact, also, that should not be lost sight, Of that some families produce great (very rich) too late for the International Stock Show. They ings in which this world-um and the other build$\Lambda$ most interesting visiting show was housed. Agricultural College at Ames, where Professors Curtiss and W. J. Kennedy are doing such excel-
lent work in live stock. The live stock nt this College was undoubtedly the best seen at any of the Colleges visited. Domestic science is also a strong feature at Ames. The Michigan State ColJ. Ferguson entertained the visitore who wert particularly impressed with the stock barn, which is comfortable and completely equipped and is of adopted by any farmer. The Ontario Agricultural College at Guelph
was also visited, and here a considerable time was spent. Mr. Georce F Day, Professor of timi was spent. Mr. George F. Day, Professor of Ani-
mal Husbandry, and Prof. Zavitz looked after the
delegation and nuch valut delegatign, and nuuch valuable information was gleaned from this successful institution.


Experience with Inculators To the Editor "Farmer's Advocate":
T would like to give the readers of the " Advo-
cate my experience with inculators during the
past year. Last March Mr. I. Kinley and my-
self decided to invest in two inculatois. Ater
writing to every advertiser and getting deluged
with catalogues, etc., each claiming for their machine special merits, over all others. Mr. Kinle.
decided to purchase a machine made in London. Ont. In the meantime. I had written the Experi-
mental Farm about the matter, and the answer mental Farm about the matter. and the answel
came back to buy a Cyphers machine. 1 did so and have no reason to regret it, Aiter qivin! find the Syphers is just as firm as when first set up. There is not a crack bet ween the
whore $I$ could insert the point of a penknife. I can't say the same of the other. for we hat it only a few weeks when we could run a ackrnic wood had been put together while green, or far and I would not be without it for more tham it price. We placed 220 hen eggs in the tophers, and were a fine, healthy lot. This was the first o May when set. I might say that we had set the hatch of 35 chicks from 210 hen eggs. Reset both
machines, the Cyphers with hen eggs and the other with duck eggs ; about 80 per cent. hatched from both machines. In testing both machines side by affected by change of weather. The regulator of affected by change of weather. The regulator of and that was when a couple of women came in prevented the regulator from working. Of course. incing our firs year, we made a number of blan
ders. Our first mistake was in not providing:
hrooder house. We had the hrooders all right
lout thought they would do. hut wet and cold
days came on. and, of course, as soon as the days came on, and, of course, as soon as the
litite chicks were let out they got wet and chilled. and we lost large numbers. If a hrooder hous,
had been erected, anything to shelter from wint had keen erected, dry and give the chicks a run would
and
have done, and the chicks might all have hemen saved. Then, another mistake was in having all
the diferent hatches in the one vard. The older and stronger came to the top, while the voung",
and weaker were tramped upon. and of cours."
peceived more or less injury. Another mistake received more or less infury of Anothere mistak
was in not laying in a supply of feed while it way cheap. and, in consequence, we had to huy most
of our fred when it was at the top price and wors
hard to get. Yet we made it a success. and han every confidence in poultry-raising. Thave no use for the hen excent to lay agers do it better. More fertile eqgs can
incubator and more chickens raise mot onfy raised, hut better raised. homey, and that another has no less than 250 a pair-12t cents a pound. I could haive sold for $12 \frac{1}{2}$ conts per pound. One firm offered me 1212 station: another firm offered me $12 \frac{1}{2}$ whts ber
pound, live weight. Wimnipes station. Thes There is more money in raising ducks if the ancks can he made to weigh from weven to twelw it for market for ten or twelde wems lomger heads off. I had the Black, the Romen and Pekin pair of Pekins that weighed over seven poombs: ive the most
 hetween the Rocke and Wramdentess and fime the For market fowl shall, after Hhis. crose the
Gocks and Wyandottes. Hising a Plymouth hook
$\qquad$ frandottes are away ahead of thene comb his fall and killect the cockereds Ny Renck ill
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Se sure and put poultry on market with all the come an important forage crop in the near fut lesh they can he made to carry. Add to the aloove plants our wild flowers

## Beakeeping and Horticulture in Colorado

 Denver during November last, when the nemberstur heekeepers Associations and the Homticuls
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$\qquad$ ween Cotorado and our Cimatian West-mo particularly Southern Alberta-it is thought the following motes of these meetings may be of imparison between Colorado and the West, from an agricultural point of view. may hetter fumish material for a later article. It may, however, 1 e Said, in a gencral way, that white the winters in hatn in sonthern Allertas and much more so than na Manitola, yet, owing to late springs and the treme drought of summer, the dilliculties to be anced by both beekeper and horticulturist (and Mrowers) are almost identical with those awaitgood reason for believing that gleanings from the experience of the workers in the lines referced $t$
$\qquad$
$\qquad$ tearned from then successes and batumes of ColoThe Beokemers Asociation was bowline ite sugenty-second ammall meeting. That in inseld
 but there are enough to make it a strong bodly
Closely comnected with it is a joint stock hones Woducoms ascoctation, which handles and markets have been pretty successiul in its operat ions stiffening prices and in other ways
There is difficulty in getting at the aggregall :iverage product per hive as the Association doc these points to out iuters.s. The afgereate in 1899
 When it is stated. as at the convention, that hives. some idea of the magnitude of the busines The programme of the comvention inceluder Momber of papers on expert matters. such ato Gr mone interest to the nowion wore the papmes

$\qquad$ Wodde threw hises. after a full study hats here whl be hoped for is desired ther snecess com
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Colorado, and we may surely hope for encouras ment for future Western beekeepers.
ment
3. The average yield of honey per hive appea to be about 30 pounds. From the figures $g i$ en to the production of comb honey Sonn xacedingly fine specimen sections were put on
hithition during the convention. Much of the hig grade honey is shipped eastward. In the seato 30 ,ooo do shap were shiped state l'rices ranged between 10 c . and 11 c pound for comb honey, and 6 c . and 7 c . for tracted. On the basis of these figures the hone: rop of Comado for season was worth $\$ 112,000$ mescibilities before our Western country in regard o this industry, and believes it would well re and the Northwest-especially the latter-to hat houllgh enculirs made into the methods used ant fove so many similar conditions prevail. If by ombe small expenditure now this industry

## A Plea for the Polled Angus.

 armee comme oreside in scotand, I haveolt. Living. as I do, in one of the districts which
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$\qquad$deed, after living for so many years in a neigh-
horhood which is rapidy becoming famous for it:
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Jandary 6, 1902

## Buying Feoding Cattle

$\qquad$解 from the leading cattle feeders there. The quescion put was the common one on this side jus now, Providing that cattle are sold for delivery what price should they be bought in November to make the transaction fairly profitable to the feeder, it being understood that cattle of a good beef type are purchased and fed on approved methods ?' Of course, the question and answer am giving it in British style. The answers vary a little, but on the whole are exactly what I hav
often stated to be the experience of feeding in this country. The highest estimate is 18 s . 8 d per cwt., and its author stipulates for extra cheap food and extra good beef type of cattle But the general consensus puts the proper price
to purchase at about 16s.4d. per cwt. This means selling out at seven shillings per cwt. more than purchasing price, and my contention has al-
wavs heen that there should be a margin of at ways been that there should be a margin of a
least six shillings. Some years when feedin stuffs are very sively at a smaller margin, if it can be helped All this is built on the basis of good-quality cattle and careful feeding. Buyers are now very mort, as witness the last sales at Dublin where the best grades were up to 27 s . 6d. per cwt. for
feeders of the right sort, and down to 22 s . per cwt. for rough lean and coarse cattle. That was
as it should be. The same remarks applied to the mutton market. All the buyers were after To show the large number of cattle sent ove
from Ireland, I note that in the week ending 23 r November 53,674 were sent to Great Britain, an

The Cattle Carcass Awards at Guelph The rules of the Ontario Winter Fair do no enter the slaughter test. In the block toct fo pure-breds the first prize went to a two-year-old Devon steer shown by W. J. Rudd, Eden Mills there being only two entries in that class. was a narrow, thin-fleshed, light-hammed ste standing on long legs and lacking in depth of lbs. at 2 years and 9 months of age, and dressed 783 lbs., or about 59 per cent. of his live weight. Jas. Gibb, Brooksdale, weighed 1,330 lbs. alive and dressed 871 lbs., or 65 per cent.; the third Galloway shown by D. McCrae, Guelph, weighed
1.360 lbs. alive, and dressed 908 bs. or nearly 67 per cent. The fourth, a Shorthorn cow 4 years and 6 months old, and excessively fat,
weighed alive 1,690 lbs., and dressed 1,176 lbs., or more than 70 per cent. alive as follows: The first-prize animal, 1,490 second, 1,$580 ;$ third, 1,$480 ;$ and fourth, 1,400
pounds ; and dressed $950,1,002,999$, and 992 pounds, respectively. The championship for the est-dressed carcass, any breed or grade, was
awarded to James Bowman, Guelph, for an Aber-deen- ngus grade steer, dressing 63.77 per cent of his live weight, this fine beef breed thus winning the highest place in the carcass competition his year at the Smithfield of England, the Smith

## To Prevent Egg Eating.

$\qquad$
 Hesgine oum hens are kept cont mintaly it work diyg ing and hunting in the liter for sone snal
 Th, the toon. so they may learn they are tike the


 III theoc bavits can tion traced to than nerrous velume memhere of the nock. "e can not hut


T'HE FARMER'S ADVOCATE

## Our Scottish Letter.

I had no idea that four weeks had passed since
I last wrote for the "Farmer's Advocate" until this evening, when I consulted my notes. Time at this season of the year passes very rapidly for newspaper men-meetings of all, kinds are so
numerous, and we are fairly in-the middle of the fat stock show season. The same condition o things doubtless prevails on the Canadian side There is a general disposition after the beginning of December to have a round-up of the whole sea-
son, and at postprandial functions the oratory usually takes the form of a modified stock-taking This afternoon I have been in Perth, attending the annual dinner of the Perthshire Agricultural Society. One of the speakers was the Hon. A. D. field, who was in the chair. He took a somewhat roseate view of the agricultural situation as the year closes, and in this respect was rather an exception to the ordinary farming orator. The po-
tato merchants have awoke from their slupor and are actually asking the price of potatoes Grain is moving upwards, and the open winter metto enjoyed, with the exception of a short the turnips cold weather, has led to at saving of vails amongst some farmers. The genural round up for the year will not be so satisfactory, and che chairman hit off the situation very, well by ".Hope." He lived on this and traded with it as The staple th
The staple theme at the average agricultural
four preceding provincial events are over. These are held at Norwich, Birningham, Inverness, and
Edinburgh. The champion at the first was a great cross-bred steer, bred in ( dmberland, and having a good share of shombon blood in his He was A. le Gal Bin
He was deleated at Birmingham
Brunhilde, Lord Strath beauty, and likely to be near the winning place at before his. His Lordship has swept eversthing ham, and always with A.-A. anclined to cavil at this, and wo doubt there is a point in the fact that the polled breed has won much greater distinctiog by its heifers than by been steers. The very iew A.-A. champions have maintain that this is due to the creat demend or black bulls, and they are fully justified in urging that reason. Still it hardly admits of put of on A - A heifer to make a champion breed or sex. The symmetry of these heifers and he way they lay on flesh are marvellous.

Inverness the championship went to the
horn heifer, Gertrude II., which secured the championship in the fat class at the Highland Society's show at inverness in Juy. She is a Meauty, bred and owned by Mr. John Ross, breeder and feeder of fat stock. He is easily first in this department amongst Scottish or English farmers. His chief success was secured with the produce of a Duthie Shorthorn bull named Ringleader, which when put to black polled cross cows-that is, cows whose
sires were $\mathbf{A} .-\mathrm{A}$. bulls, sires were A.-A. bulls,
and their dams ordinary cows of the
Shorthorn dairy type Shorthorn dairy type equalled for symmetry and adaptability to Serve champion at bred by $\begin{gathered}\mathrm{Mr} \\ \text { Mada- }\end{gathered}$ line, and several of honors at Edinhigh The Inverness champion is, however, not standard-bred Shorthorn, and her symme
try is marvellous. He chy is marvellous. He verness was a
massive black
great,
cross teer, bred and owned er, of Douglas Fletchnamed Simbad. This animal is a wonderful $\begin{array}{lll}\text { illustration } & \text { of } & \text { early } \\ \text { maturity. } & \mathrm{He} & \text { was }\end{array}$ got by an A.-A. bull got by an A.-A. bull,
but for once the black polled has failed to
knock off the horns.
Ms a butcher's animal he is about right, and although at Inverness t wo breeders, Mr.
Duthie, of Shorthorn
$\qquad$
rnational S
wisconsin.
I. Walker. Postlethen, favorite judge George cattle, had no difficulty at all in placing the heifer first, the six judges at Fdinburgh, amongst
whom were two butchers three taking the butchers, hopelessly dinered the end the umpire, Mr. David Tod, a iamous cattle salesman, gave the supreme honor to the
black cross ox, sinbad. The uward was adversely criticised, but there 1 s much to be said for a standard in practical trading. The heifer Gertrude II., is perhaps the sweetest and mos uniform and symmetrical specimen of the breed breeder's fancy, but a fat stock show is not quite a breeder's function
this time, but will promise a horse chat in my this time, but will promise a horse chat in my
next letter.

And His Father Before Him.
$\qquad$ cate, and I heartily agree with all the testimon ialls I read continually in its praise. I think my
father was a subscriber from whon it wis fins
 . :Hll their wants might he supplied in wintir as in


GOLD MEDAL (11057) 10192
$\qquad$
$\qquad$ een imported into the discussion of this question in an address delivered by Professor Shields
Nicholson, of Edinburgh. His special department is social economy, and he has been looking into he history of the relations between labor and card the present situation as unprecedented. The arift of population from the country to the towns has been a feature of social life for many centuries, and the great cause is the higher rates of
wages almost invariably paid in the towns. It is impossible that there should be other than this drain, because the rural districts could not find employment for their population. At present, the situation secms accenuated, because of special circumstances. There are difficulties in the way
of providing suitable cottage accommodation in many districts, and this, in many cases, can only as many landlords have no means of putting up the necessary bfildings. There are districts in the scarcity of houses, impresses one, but such the town willingly. As a rule, the cause of emi gration is the lack of houses, and these can onf
be obtained when the landlord is not pernilcss, as, unfortunately, too many proprietors are. Th ion in the rural districts of the virtuous ponn lace eulogized by Robert Burns in his mos The freat fat stock show of the smith- ,



## The Northwest (Canada) Entomological

 SocietyOTICEABLE INSECTS OF 1901
Undoubtedly the most conspicuous feature Northern Alberta, from Olds to Edmonton and east into parts of Saskatchewan, has been the myriads of dragon-flies. In the early part of the year we were threatened with an unusual plague
of mosquitoes. The flooded sloughs teemed with their larvae, but very soon after the appearance of the perfect mosquito the dragon-flies came on the scene, and during July and early August immense numbers filled the country and in many
parts (noticeably in the Red Deer and Lacombe districts) they literally exterminated the mosquito on the wing. Nothing but good has ev been recorded of the dragon-fly; in fact, their and their larvae and pupae for eating vegetation, and in both stages are active, their food being larvae of mosquitos and other soft-bodied aquatic insects.
ourrence of the nature, and the remarkable ocrom far south of Calgary and reported by Mr T. N. Willing, Mr. F. H. Wolley-Dod and resi-
dents in Prince Albert, Grenfell and elsewhere has been the very large numbers of caterpillars of favorite food of ( P . cardeia). The cluding, let us be thankful, the Canada thistle), blue bur and pasture sage.
Warbles this spring were decidedly more abundant than last year. The deaths of a good many cattle in the early part of the year were, I bepest. On one carcass I counted 175 distinct The horse bot fy has also bean very troubleremedy for this which was. published some time ago by the United States Department of time culture : Bruise some tansy and make an infusion of the juice-i. e., tansy tea. Give the horse some of this tea in the morning and a dose of salts in the effected. The tea kills the bots The diamond-back moth (Plutella orum) has been again very abundant in all parts of the Territories, seriously damaging many tu mip and cabbage crops. From the presence of
parasites in considerable numbers last year, there were hopes that this pest would not be trouble some this year, but every turnip and cabbage field neglected
of Sacombe turnip and cabbage crops in the vicinity of Lacombe ale suffered from the red turnip
beetle (E. adonidis). In certain instances the beetle and its larvae consumed the plants comthe stems. This beetle is reported also from wide-spread pest. gaining headway potato-bug (D. decemlineata) i gary, Macleod. P'incher Creek, Walsh, Moose Jaw and other points. The winters are not fatal th the pupa state.
Another pest of the potato field more trouble some this year than usual
chiefly (so far as I have observed) wirewormthe "daddy long-legs" or crane fly (Tipula). It was a common thing to find 10 to 25 per cent.
of the potatoes affected by this worm. Reports ories.
Damage by root maggots of various kinds has
aso been conspicuous this year. I have noticed also been conspicuous this year. I have noticed ceveral other parts of the Territorics as far as bages and turnips were all about equally the suf-
ferers. The growers of these vegetatles seem to have some difliculty in coping with this pest. Mr.
T. N. Willing reports the larvae of the calbage bundant in gardens around hegina, and here and there the little, active turnip flea-beetle (11. st Of foliage trees. Mre Wialling mentions.
otent
aterpillars of both species ( $C$. americana and a disstria) as having been abundant in Assiniboia and I olserved aconsiderable number of the lat
ler variety on aspen poplar in the Red Deer dis-
ithet I found many whe parasitized by tachina ies. and I hardly think troulble will be given tiv




## distinct), have again given throughout the Territories.

With regard to prain there have been several complaints of injury to the young plant in first
blade, the blade wilting away. In two cases foth of oat crops) which I went to see, the damage was the work of a wireworm of the same genu
(Tipula) as that affecting the potatoes, though different species. Mr. Willing mentions some tal by farmers of wheat being slightly damaged by an insect, but a report of a more serious nature
St. Louis (Sask.). where from a stem midpe larva which fed within the stem about 1 to 2 feet above ground and dead farms straw before the heads filled. Severa of this pest, the heads and straw turning whit and dond six we healo harest madew words more and I will close the list made some mention last year of the liability to to the arrival of new pests. There are this yeat $t$ wo absolutely fresh pests to be reported, both of them beetles. One (T. attenuata) I have found in large numbers With regard to remedies (as I have taken up so much space already, I will, if the papers will recommended for each pest early next spring.

## How to Farm in Manitoba

To the Editor "Farmer's Advocate ". :
The immigration to this Province has teer very large during the past year, and is likely to
continue for some time. Very few of these new farmers have a knowledge of prairie farming, and it has been intimated that a few suggestions from one of the earliest settlers might prove use ful to the newcomer. The majority of immi homesteading in - This Britain, hav ire the better plan, especially if the newcomer has a practical knowledge of farming land and also de sires that there should be no break in the educamany opportunities for the purchasing of railroad land or the leasing of improved farms for either a cash rental or on the basis of a percentage of the year's produce.
$\qquad$
$\qquad$ cised in its selection. It should be borne exercised in its selection. It should be borne in
mind that the farm is likely to be the abiding
place for the settler and lis funily place for the settler and his family for many greater importance than a mere investment good farm if the soil in the surroundine on is poor. $\Lambda$ thriftless and sparsely-settled neighborhood retards the introduction of rail-
ways, the development of towns, hinders the establishment of churches and schools, and prevents even a good farm irom improving in value. ly of a free-working loam, with abundance of
humus (decayed vegetable matter) in its composition. This will make it to a large extent drought resisting, an important consideration where the rainfall during the growing season is
,ften somewhat limited. Besides testing the Soil by digging, the settler can form a
very fair $\left.\begin{array}{c}\text { idea of of the chacter of the }\end{array}\right]$ foil by the vegetation growing on it. The good soil? Wolf willow, wild fose, and and smow-
berry. The small vet land, and the large gray willow living springs generally very sandy. To secure satisfactory drainage, the character and if the swells are fairly gradual it will greatly most important requpirements of anter is one of the should he most important requirements, and this should be
located even before the huiding. site is selected. idered cessential to even a grain farm, but com cultivated grasses, the hay meadow can be dis Clelosed with. pectially if sutficicently larker for an advantage, es-
as whilding purposes

exclusively of their own countrymen. White the
feeling is matural, and has some advantages to ecling is natura, and has some advantages to balanced by the disadvantages. Large colonies composed exclusively of one nationality have a tendency to stagnate and prove unprogressive. acts as a stimulant and a mixed settlement with fair sprinkling of settlers conversant with prairie farming will always prove the most prosperous. In a new country are triendly, and

## The Winter Fair Dairy Test.

The competition in this class at the Guelph how last month was larger this year than usual. hough no phenomenal records were made, yet ware were about thirty heavy milking cows forAyrshires, Holsteins, and grade. Utopia, a Short-horn-Jersey grade, shown by A. McDougal, Guelph, was the sweepstakes cow of the year, giving 106.3 libs. mik in the two days of the lone on the following scale: 20 points for each ot fat, 1 point for each ten days in milk after the first thirty days (limit, 10 points), rations ed not considered. Shorthorns were represented y seven cows and three heifers under 36 months animals, the first award in cows going to Bonnie Doon, 4 years and 6 months old, owned by L. D. Currie, Hillsburg, who made 113.16 points; cond by lish Ay, ow by A. W. Smith, Maple Lodge, 3 years and 4 months old, and who onsidering her age and that she suffered slightly rom indigestion during the test. The third-prize cow, Indian Rose, shown by Jas. Brown, Norval,
form, and would doubtless have made and dairy cord had she not been knocked out by overfeeding, which brought on indigestion and scourteins heifers. Winnie Win 6 years and cows and six hown by Geo. Rice, Currie's Crossing, gave 1194 nd milk, the highest milk record in the show nd made 125.50 points, winning first in her 6 years and 6 months, owned by $G$. De Kol 2nd, St. George. In the heifer section of this breed, co, Rice's Pauline Pietertie Clothilde brears and 1 month, led with 92.8 lbs . milk and 104.3 Schuiling Jas. Retties Marcena 3rd and Cornelia cars and 3 months, respectively, months and 2 and third places, the former with 102.98 soints her credit and the latter with 97.36 points tested. Annette, 8 years and 3 months old owned by W. M. Smith, Scotland, Ont,, won first 113.44 points to her credit. Nellic Grey and years old, exhibited by N. Dyment, Clappison was second, with 108.56 points, and Annie Laurie, shown by H. \& J. McKie, Norwich, third, The grade cow, Utopia, winner of the swee stakes over all breeds, was the only cow sweepin the grade class. Of the heifers shown in this class, Ayrshire Nellie, a grade Ayrshire, 2 year Cormick , Rockton Neidp Jock, orwned by Jas. Mc pounds of milk in the two days. 68.

The Lights of Canada.
the Fditor "Farmer's Advocate ":
The lights of Canada are growing. dimmer Mectric plants, and all within reach patronize Them: But we-us farmers, "the flowers of Can-
ada." the feeders of the world "-are we to te left thearkness? Are we to lose the enjoyment of rather, the winter evenings because of light-or, At the mesent puzzling many great heads. But who are they doubt, some of the cleverest in the land. But
they forget the fact that of inverget the fact that " necessity is the mother Thetter light while sitting undersity have they for for the farmers and the farmers' is a quesnals to$4-2+2$where the next hest thing. It gives, I think
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THE FARMER'S ADVOCATE

## Appreciation.

 Vinerr : stweente " for 1901, as well as of one muse mers throughout its wide constit$\geq$ - everelingly gratifying to the staff, $\pm-\infty$ timalate and encourage all conconco $\rightarrow$ torar to mewed efort to excel in $\square=$ tile hands of its patrons a paper calante to tertal and helpful to the farmer and - thaty ie all the relations of business and =esely tee accomplished by and through - mentrenser of mutual sympathy and confi$\square$ tervan eriters' and readers. That this U ewate to a very satisfactory extent we - $\quad=$ enarty every mail received at the office, - o the purpose of the publishers to spare C me -3 revonatie expense to make the paper 0 onto every department and to deserve 6 - eondence and commendation of its Unturs Io erder to the accomplishment of this at enarty co-operation of its patrons is $\square=$ invile this, not only in extend-- $m$ evechation and thus its sphere of useful-- En m contrituting helpful information as $\pm=0$ ef experience or by asking for inior-$\pm=-=$ peints that are found to be perplexing, tena eapert authorities, if possible supply 0 andyly practical, and while giving to - unse adoption until they have been found atae unir adoption unti they have been found Cont The aim is to make the paper a safe -ura The aim is to make the paper a safe ned the same time, to safeguard the -uese to promote

Marly Matarity and Live Weight. Nores of the weights and ages of the $\ldots$ Mot Moed show last month furnich the $=-=-\quad=$ the | veral classes varied consid der |
| :---: | $\triangle-\cdots$ ond to their rate of meat prontucton $=\angle=-=\frac{\text { was }}{}$ $\therefore \triangle$ Ens them This was well illustrated $\therefore-1$ In the class the best periormer


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 $-1-0 y$ or the n nimals in the show fell th $=$ Lent on this occasion an Aberdeen
 -2 -_-und




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## Army Horses

 a great deal has been said and written about remounts since the Imperial Government com menced purchasing Canadian horses for that purpose. The purchase of these horses and the fact Arica ene prated ns a great boon to Canadia as it has given an opportunity for horse owners dispose of et fair price a large number of horses that are not valuable for other purposeshorses that are not representative of any recog nized class and for which there is, under ordinary conditions, little demand; still, animals that are serviceable for certain purposes. The dange that may be apprehended is that farmers will commence breeding this type of animal. Thorougli bred stallions have been imported into Canadi Ror the express purpose of siring remounts. We to this class of stallion, and the Government is contemplating the establishment of purchasing stations. Yet, when in answer to an advertise ment, a person brings a bechasing agent, he is quarter that he is not what is wanted. If he be good representative of his class, he is too hig and too spirited, and if he be within the limit in height, he is too fine, with too light bone and When we think a moment of the horses that hav been bought by these Imperial officers or thei

burnbrae 2707, 8378.
x yars old. winner of first prizt
Pan-American Exhibition, 190|.
among them those that are might be calle misits. Let us for a moment consider the type of horse that is wanted. They advertise for
 action that is usually considered necessary in saddle horse is rejected, while the little, coldblooded fellows with none of these attributes are purchased. Then, again, the prices given are to sell, as he can get more money in other markets The highest price given by the Government is $\$ 150$, and as the animals usually pass through the hands of two or more sub-agents, each of which must have his profit, the breeder must of necessity sell for much less, usualy
$\$ 100$, seldom more. These agents probably pur\$100, seldom more. These agents probably purtion) of horses in Prince Edward Island than in any other Province of the Dominion. It was my
privilege to be in Charlottetown. P. E. I., in Privilege there purchasing. I may state that there has not
been a Thoroughbred animal, either sire or dam, on the Island for the last two or three decades The horses that were bought, purposes under ordinary circumstances, and cer tainly they do not in the slightest degree resemble
the produce of the Thoroughbred. They wer the produce of the Thoroughbred
mostly all sired by trotting-bred stallions, out of

Thoroughbred sire to produce remounts and then o look around and see the horses that are purchased for that purpose. It would be very unwise or breeders to endeavor to prated for the present South African war, but in all probability this var will be ended years before the present or uture crop of colts will be fit for service, and it England should be unfortunate enough to be at ar with another nation horse will be required to uit the peculiarities of the country, and then where will we find purchasers for our little coldblooded fellows? Again, even though there were reasonable certainty of the present market being permanent, it will not pay the breeder to produce his horse; he had better breed a higher-classed
nd higher-priced animal. As already stated, the top price paid is $\$ 150$, while it costs no more to aise one that at a salable age will be worth $\$ 50$ $\$ 100$ more. If while endeavoring to breed
high-class animal the breeder produced a misfit, why sell him as ad remount. Breed as the imperial officers advise, viz., for saddle purposes ; patronize the good, big, good-mannered Thoroughbred sire, but do not try to breed the type
animal that they are purchasing. "WHIP."

The Block Test.
(From our Ontarto and Eastern Edition.) roper accompaniment of the Fat Stock Show will be readily admitted. By this means alone can the quality of the flesh of the animals be determined. Men may flatter themselves that by nccuracy what will be the character of the etressed carcass, but experience has proven that not untaken in their estimate. This was well illustrated at the Chicago International Show in 1900, when the sweepstakes steer in one of the classes, apparently a model likely to kill with little offal furnished a carcass so abnormally full of tallow and fat as to be test. The same result, or a the killing test at the late (hicago Show. The adage that exceptions only prove the rule, convenient excuse in many an
emergency, may apply reasonably emergency, may apply reasonably freely admitted that the ex perience of a practical butcher who buys and kills his cattle and is not a mere purveyor or dealer
in dressed meat, enables him as a rule to form a fairly accurate esti mate of what the outcome will be But this does not, and we believe never will, convince breeders and
feeders that butchers are the ideal judges of fat stock on foot, for the reason that they have not in or appreciate the type which the freeder and feeder knows from ob servation and experience is most
profitable to him owing to it profitable to him owing to its the best return for the food consumed, For this reason the dirce ors oing the judginy of the live animals over to butchers, but judging of the live animals owards made by an ex perienced breeder when a single judge is chosen, two are preferred. Onio Winter Fair has taught that for sound educational effect it is also unsafe to commit the judging of the dressed carcasses to butchers who catcr ond to carcass that will cut up with most profit to themselves for their home trade, without any regard to the interests of the producer or to the fact that the Christmawn at these fairs is meant for the understand it, is not the advantage of the local butcher, but of the feeder, and the meeting of the demand of the best-paying markets. A well-fed
scrub, or possibly a half-fed one, may fill the till for the home town trade, and we have dead loads are always with us), and they are evidently the from the the average town butchar buys, judging found on houlel tables and in meat shops it (hanala, which usually nd cannot afford to have our fat-stock show uad for the whe
that sort of stoc
statution upoon of statution upon,

THE FARMER'S ADVOCATE
with the idea, as some of them appeared to be at necessity assume the type of the bacon hog. For our own part we do not expect to see the
Fat Stock Show soon, if ewer, so perfected that Fat Stock Show soon, if ever, so perfected that the dead, but we believe it is possible, by securing judges who are engaged in catering to our
broadest and best markets, to come reasonably near to this result, especially if, as we
there should be, separate or special classes are opened and liberally encouraged for animals of suitable quality and condition for the export trade. This need not and, we are offering of prizes for the highest types of the breeder's and frizeser's art in each breed and in grades and crosses, and also in a class open to all comers and we are not unwilling to believe that even in ful feeding and with competent judging in each class by men having the broader experierce and outlook, the breeder's and feeder's ideal anima may yet win, for who win uncester at the lat show at Guelph, had he been killed, would not have dressed a profitable and desirable carcass There was not a suspicion of surplus at alouly him, but his was a model flesh, and the prize in the champion competition did not go to th fattest animal by any means, because the judgce knew their business and viewed the case from the proper standpoint-that or Who does not believe which pays the best prices. character of the chnmpion would sell quickly an export shipper or to a dealer catering to
trade fer a cent and a half a pound, live weight. trade or a eene of the stamp of the first-prize steer in the carcass competition at in th
This means a difference of over $\$ 20$ a head in price of cattle of equal weight, while it would equire of inferior type up to the equal weight. nimal of inferior type up to the equad late show
The lessons to be learned from the later are that feeders must pay more attention to tho exercise of the animals, and to feeding mixed rations calculated to produce flesh rather than
fat that the management should secure as fatges for the carcass competitions experts from prominent packing establishments or from among men who have had opportunities of studying the needs of the leading markets. Parts of the
carcoss must also be cut up in order to afford unlity. Had this reasonable proposition been adopted at Guelph, the carcass rating might have
been different, and had the judges of carcasses lso probable and tho result would have been different, and to our mind that they should see them under both conditions would be a rational arrangement, one by which the necessity for mak-
ing some labored explanations might be avoided ing some labored explanations might the lecturers saved from the distress of seeing the shocking example of a living animal they tude as an object lesson on the type to be
avoided and discarded by the feeder, a little later voldelled and the ideal carcass by the final court, and their pet theories on regulation rations for
producing prime bacon rudely shaken by the announcement that the beast whose body was
awarded premier place had got his living largely from slaughter-house offal.

Magnificent Production. sible for me to get two extrat copiend of your the best things of its kind that has cerer been reproductions, besides being of an intensely prachoto of King Enward which appeals on your
over page, together with the charming write-up of the royal farms and herds, cannother they be
great interest to all stockmen. Whether
British or American citizens. If a fow more of the great rulers of this world would show the in-
ferest in farming and the stock business that has
 cattle, shcep, swine, and homses, with hut very
iew exceptions, have benn theromed in Grait
Britain. Who can estimate the wonderful influence on the young men who are subicets of king
Edward when they appreciate the high standing exhibitions of high-class stock on hoth conti

## The Smithfield Show

driumphant victory of aberdeen (Special correspondence.)
Writing at the close of Smithfield week, only Writing at the come is possible-the triumphant ascendancy of Aberdeen-Angus cattle and their crosses over all other British breeds at the fat-stock shows this season. The Smithfield Club Show is the great winter round-up, and the victory of the polled black breeds was indisputable. The judg ing at Smithfield is done by a carefulry-setecte bench of one expert to each breed, a system which conduces to celerity in business and omiformity in awards. judged singly, and this yeur the task in the cattl section devolvedi on M. . .erry, Berryneld Aylesbury, a gentienta ... and has certainly no breed prejuccere an Ater selections for the champer Gelloway heifor, aeen-Angus steep ants Aberdeen and a cross-bred heifer, Aniversally admired by the crowd which thronged he rings and galleries. The final order of the four was (1) the A.-A. heifer, (2) the cross-bred heifer, (3) the A.-A. steer, and (4) the Galloway heifer. The A.-A. heifer was Brunhilde, bred and owned by the Earl of Strathmore and Kinghorn, 933 days and was champion Birmingham as well. Although, according to the rules of the Smithfield Club, the Earl is regarded as the oreeder of the heifer, she was only calved in his possession. Her dam, Battle, was purchased for the Earl of Strathmore at a sale held by Sir James Duke, Bart., at Laughton, Ringmer, Sussex, the cow being then in cal air bres Her sire was Jolly Rover 7633, Sir James Duke's herd bull, and the correct statement abou hen breeding would be Mating brecer, Simes Duke, Bart.; calving breeder, on which the Earl hes for the hest fer male the Smithfield Club Show and the second occasion on which he has won outright second oceasion- Wis I didshis herd Castle inge cup. land, and it is splendidly managed by his factor, Mr. Andrew Ralston; the land stexvard, Mr who knows his business, and keeps close to it. Mr. John Ross, Meikle Tarrel, Fearn, N. B., and is owned by Mr. W. J. Learner, WVickmore, Norchampion at Norwich and reserve champion at Birmingham as well as at London, and has taken
very strongly to the A.-A. type. Her gait is very strongly to the A.-A. type. Her gait is
defective, and, indeed, as against Brunhilde on this account she had no chance. She is well
finished and a marvel of the feeder's art at her age. She beat all the cross-bred cattle of either sex at London, and only went down when Brun-
hilde took up the battle. The third best animal in the show was the champion steer exhibited
Cock o the North, also an Aberderm-Angus, and shown in great bloom, but not so firm in flesh as either of the heifers. At 2 years 10 months it 1ipple. Fochatbers, N. B3, and his owner is Mr London West Find butchers, who has a farm in the Galloway breed provided the fourth hest ani heifer, Mard of 1 Honor, which, at 924 Cass
weighed 1,506 lus. This heifer was 1 red by lirought out in groat form by her owners, than "alstic supporters of the Gatloway lireed. She it
a march of symmetry and levelness. and may kill as well as any of the other blacks in front of her. roduced tiy the lired. Naturally, Scotsmen fer

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pionship and the reserve championstip The con petition with all breeds and crosses. These hibits are, respectively, an A. A. classes, and ve fine samples of marbled beef. The heifer's is ideal carcass, and was greatly admired all 'round. This crowning victory fairy caps Country is con ceedings, and so far as the Old Cover all oth breeds and crosses as first-class butcher's stufi In the class for steers under two years old, a Welsh runt was - first, an A.-A.-Hereford cross second, a Sussex third, a Galloway fourth, and as byorn the heoviest 23 months old he gave carcass of 914 lbs . In the class for steers over two and not over three years old, the winner was the King's $\mathrm{A} .-\mathrm{A}$. shors then After him came next a Galloway-Highland cross (which Kerry, next a Galloway-10 hoof), and fifth an A.- .-Shorthorn cross In the heifer class, the King's A.- . champion led, her carcass weight in 2 years 8 months being soss ; third, a Short horn-Kerry cross; fourth, an A.-A.-Hereford cross, and finally a Galloway-Shorthorn cross. It
will thus be seen that, whether as regards live will thus be carcasses, Scotland has done remarkClub Show.
SHFEP.-So far as sheep and mutton are concerned, the same tale must be told. The judge
for the long-wool championship was Mr. James Swan, well-known Scottish salesman, and he went for quality in mutton, with the result that
the Scots breeds scored all along the line. The championship and reserve championship both went to Mr. John Mclowall, of Girdstingwood, Kirkcudbright, his pen of Cheviot wethers taking the leading honors, andinsolns came next and had easily the better of both Scots pens in weights They were only lambs, yet the three weighcd 708 lbs., at 9 months old. Mr. Mclowall's Cheviot
weirged 831 bs., at $19 \frac{1}{2}$ months, and his Blaclim faces, at the same age, weighed 667 lbs . After the Lincolns came the Fnglish Leicesters, and none of the breeds had any show at all agains! the Scots breeds. In the carcass competition competition and many entries. The championship here was decided by Mr. Cridlan, the London West End butcher, and he gave the premicr award Tast in ith carcass weight was 90 lbs The Lothan. Mas carcass was a SuffolkMlackface cross, which at $20 \frac{1}{1}$ months weighed 130 lbs . The second-prize carcass in
class was a Suffolk-Greyface cross-that is, by a Seifester ram and her dam a Blackface ewe. This carcass weighed 88 lbs . A Suffolk-Cheviot cross nonths which stood fourth in 148 lbs . weight. and a similar cross winning fourth in the lamb first in both classes for short-woolcd sheep, the first-prize lamb carcass weighing 88 lbs ., and the first-prize hogg carcass ( 21 months ohe 97 . lean meat The breed was formed by crossiñ the old Norfolk horned ewe with the Southdown ram. and, except that the produce may be a little difficult to fatten, there can be no doubt that the butcher's sheep.
SOOTCH CLYDE GELDING WINNERS dale geldings exhibited by Messrs. A. \& W. MontKomery at the Chicago Exhibition was cabled in time to be made public to all and sundry at the imithfield Show. Naturally, Scotsmen felt elat d and the Messrs. Montgomery are to be congrat-
ulated on their pluck and enterprise. The horses shown were " picked ", specimens, but had been doing their share of street and farm work tefore being shipped. They are big, powerful animals, the Clydesdale alone with his preat weight and size. It is his style and action which makes the
Clydestale superior to the Shire. The latter has many points in which he is the equal of the
Clydesdale, but along with these the Clydesdale. has the advantage in gaiety and activity

As Viewed by an Old Journalist stock Show in Chicago, the greatest apposition were British-twry subjects or had received then Professor of Animal Ilushandry

Jandary 6, 1902
Farmers and Their Mortgages
armers, as well as others, should always remember that to one who has good security to
offer it easier to borrow than it is to pay back; and, as in Solomon's day, so now, to some extent at least, "The borrower is 'servant purposes for which, it is profitable to borrow ;
and then it is well for one to consider where to borrow and how.
It goes without saying that it is unwise
borrow to obtain luxuries whether it be a carriage, a more expensive house than is neces sary or any other thing that may be done with out until the money is saved, not borrowed. And again, when a man finds that he has been drift
ing and running further behind year by year ing and running no unusual circumstances to account
blamed for such a state of affairs, and nothing to indicate that the future is going to differ from or be an improvement upon the past, he had better consider whether he should not sell all or part of to mortgage and continue to drift until all he has is swallowed up and gone.
Further, it may be laid down as an axiom,
true as Euclid's, that it is never wise for a farmWhether an may profitably borrow de pends not only upon the object for which he rorrows, but upon his business capacity. Some men will control a vicious. In like manner, some nuen ilar control a mortgage, whenstances, are controlled by the mortgage. And often men with but little business
ability, by sheer muscle-work and rigid economy, have achieved moderate success who would have with greater business ability, would, with the same surroundings, have won still greater success by the aid of a mortgage loan.
Oftentimes a young man with good health good habits, energy, and a practical knowledge lars, may very wisely borrow to purchase a farm. A man having owned and worked a farm quite large enough for him while his children were
young, may often find it wise to borrow to purchase a neighboring farm when his boys become him. And sometimes a farmer may wisely, but cautiously, borrow to increase the earning power of his farm by the erection of better barns and
stables or by draining or other like improvements.
Having decided to borrow, where, or from whom, shall the loan be obtained? Many per-
sorts prefer to borrow from a private party rather sons prefer to borrow from a private party than from a loan company, and certainly there than from a loan company, and advantages in borrowing from a private money from a private party at a lower rate of interest than companies charge. The costs of private loan are usually cower, penses of a loan from a company when one saves the trouble and expense of remitting to company. On the other hand, there are advantages in dealing with a loan company rather than a private person. asked by private individuals, Sometimes, too, private lenders are quiet as the grave as thers frefucntly boast of their mortgage loan and others again, from extreme caution, ask the Wan or when the borrower asks a week or a
month's extension of time for the payment of his interest, and so the borrower's business becomes
common talk of the neighborhood. A loan comagain, a private party to whom interest is due iipon a certain day frecucntly arranges to make
some particular use of it upon that date, and is, therefore unable to grant the borrower any ex-
tension of time, while a loan company, having
mood security, is alwavs able, and nearly always willing, upon refuest, to wait a month or two Wifter it is due for a payment of interest, if it wil
Cnable the borrower to market to hetter advan-

 Somecimes utday



THE FARMER'S ADVOCATE

Poultry Raising in the South.
parties, should in each case guide a man as
whether he will borrow from a private individual or a company, but it seldom pays to pay a pri-
vate party any higher rate of interest than the money may be had for from a loan company Amended laws and the competition that How ex ists in lending money has entirely done away with vexatious and exacting rules and meses.
formerly attended loan company mortgaces
Having decided where to borrow, there ar other matters to be considered. Most mortgagor stipulate to pay their interest once a year, buy
in many cases it would perhaps be better to pay

turning the first furrow
Farm of J. R. Parkington. Elm Valley, Reston, Man.
the interest half-yearly. In former days, when
the farrear's whole income was derived from his the farmer's whole income was derived from tic pay interest annually but now that the dairy the orchard lambs, fat cattle, hogs, etc., contribute to his income, the money does not all come in at one time, and it is often easier to make up say $\$ 50$ twice a year than $\$ 100$ at once.
No matter at what time of year a farmer makes his mortgage, he can nearly always arrange to have his payment or payments it often
due at any time of year he may choose. It ond makes quite a difference to the borrower and usually none to the lender.
It is usually a good thing, in his own interest, for the borrower to be obliged to repay a smalu
instalment of principal annually. With such a provision in his mortgage, he will perhaps reduce the principal when othervise he would not. It will also be an advantage to have the option of making tharger annua $\$ 000$ five-year loan to be obliged to repay say $\$ 50$ of principal yearly with the, interest, with the priviliege to increase any one or more of the annual paymencs of principal oower nsks the privilege of repaying the whole principal at any time before due, but such a request is unreasonable and ono-sided, and too nuch a case of "heads 1 win, tails you lose." In
 better rates elsewhere, but should interest go down, the borrower would immediately borrow elsewhere and pay off.
In signing a mortgage, or, for that matter, We are doing a way grea dethe negro," mused the Southern visitor, as he lit his cigar after dinner-" perhaps too much. For instance, a fow years ago 1 was somewhat inter ested in poultry. I had a fine flock of fowls, but, on it in numbers. We never had any of our own poultry on the table, and seldom an egg, sinco 1 ordered all the eggs set. In fact, I suppose my hens led the most sedentary life of any fowls ever from them as soon as hatched and raise them by hand ; as for the hens, we set 'em again. My hand as iot so they could scarcely walk, they sat so much. I think in time that I might have de veloped a breed of hens without any legs at all, and Inw and hat the Atkinson Wafte-iron Sitting Hen's Nest, consisting of the ordinary nest, and over the back of the hen a receptacle like a thick soup-tureen cover, the under side of fine gauz In this I put thirteen eggs, and lowered it over the back of the hens, where it fitted perfectly, and the eggs above got as much warmth as those below. It was a great succoss, I finally suspected my African fellow-citizens.
"I will say that we have a very good class of colored people in our city. They have been
nuch improved
morally, and are T beliove, gen erally honest. Their taste for fried chicken remains, however. My fowls were peculiarly marked as to their feathers, and one day I took a quiet turn through the neighbornood inhabited by the dusky brethren. I was pained to see larg quantities of the plumage which had unnistak
ably once adorned my fowls in their back yards I went home and ordered my man to lock up the coop at night. He did so, hut, the evaporationhicken cont inued. I bought a watch-oog, but the his collar, and left him for dead, though he stil had life enough when I went out to see what the row was about to leap up and grab me by the bili from my family physician was this item $\$ 2$ To picking 114 bird-shot out of hired man\$25. I broke up the sitting industry among my hens, closed the coop, and forced them to roos missing in a tall tree, but a dew of chem the boldest plan ever conceived south of Mason and Dixon's line
"This was nothing more or less than to send cordincly nurchnsed medium-sized balloon and had it inflated from the gas-main. In the place of the basket I attached a wide rope-ladder, let the balloon up so this just cleared the ground and my chickens readily went to roost on th line and fnstened it to post. In the morning we drew the balloon down and found the flock intact. I congratulated myself on having out witted the colored man and brother at last. W hepeated the operatcontion to have my retaining line a small wire cable, so that it could not b cut. The second night we found an African try ing to climb it. He had got up about seventy five feet, but came down rapidly on my man ap-
pearing with a weapon. After this we greased no more trouble in keep
kay
no
nither
chickens

 well for ${ }_{\text {at }}$ week, high. I I subscribed another poul-
 time $n$ young son
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 And when you have simed your mortpape. rue ntached it the wire cable of the hatoon and

## Improving the Ayrshire Breed.

is is an all-important question for Canadia is is an all-important question for Canadia
farmers. They have invested largely i Ayrshire cattle, and so far with general adval " had their fingers burned." and paid big money for animals that were very unlike the man's daughter who " was better than she was bonnie. These particular animals would have been good enough had the Ayrshire not been wanted to viold milk. As ornamental pieces about a farmsteading they might pass, but the man who too the risk of bringing them across the Atlantic ha htie for his pains. How these members dairy breed should to so large an extent have last their dairying properties is a subject tha stand some debate, and it may be useful Whether there be anything in the carly ha ary the breed to warrant tire supposition that As an answer to this question it is well to re member that Ayrs!ites are the have been disappointed with their purchases ats a rule, invested in the show animal: the fail which have been bought not because they had good records as milk-producers, but because they had won prizes. Had enquiry been made about milk-production, little accurate information conld ers keep records. In Wigtownshire, where the Ayrshire is seen to goed advantage as a commer cial animal, the existence of the creamerics cording to quality, has taught dairy farmer Ayrshire, but very ferv have any definite info mation to give concerning quantity. Another eic A comparison of photographs of the past an showe bull of the present is as robust and "framy" been allered for the better or the worse during the past 50 or 60 years may legitire ${ }^{6}$ tely form The Ayshite Agricultural Association hat during its long career played a most important breed. There is before us a copy of its premiun Mr. James Murray, Carston, and dated Ayr, 18 ith
 fire, and the premiums offered include the perzes for live stock to be held "at the Great Show in
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good-milking strains. As an indication of the and his progeny continued to win for man reater robustness and scate of these carly bulls, day, cows. The first-prize bull at the $H$ eference as the "Horny bull," which left a strong im- in color, with horns rather low and outsp pression on the breed. He was used by all the leading breedors in the district of North Ayrshire, and amongst others by Mr. John Reid, Auchengown. Lochwinnoch, who patronized the best bulls the district could afford. The "Horny bull was of the same color as the well-known Shor horn champion, " Sign of Riches"-red, with white mark on his back-and was a very big and heavy bull. Mr. Reid had a stot stirk by him which at six quarters old weighed 28 Ay shire stones-672 lus. beef. As his name indicates, he had a faulty horn, the fashion beng in inclined downward. He was a prizewimer locally, and bred good stock in every way, their vessels being correct and the frame and gaiety sufti cient to carry them through in good company
 and in various districs, and in the herds of the Duks of Buccleuch in Dumfrieshire, who bought him from Mr Bartholomew, Millbank, Lochwinnoch. After a time he came back to Ayrshive and became the property of one of the great im provers of the breed, Mr. Parker, Broomlands, Irvinc. This bull was in color dark red, with a white spot. He lived to a very old age, and bred big, roomy cows, with good vessels and teats, and good milkers. It was in connection with his stock that brecters began to and in the end the fancy for having the vessel tight and level and the teats perpendicular, and broad in
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vith great sivlo atiout the head and horns, andintroctuced a cross of Vest Highland or Kyloeblood. The Swinlees blood was largely used in of head and horn there came the distinctly Itighe Fand characterist ic of the " clipped lug "-an en ened so that it seemed to have been clipped with at pair of scissors. These carly sires were almost Anvariably red or brown in color and some of them had dark-colored heads. Cambell, from Mr. Allam. Flackstone, Dalry, about the year 1840 was a dark-colored buil, with white markings. and the dark-colored or almost black head which Wull got by the Ayrshire of the period out of the West Highland black cow. This Swinles bull
was the sire of Tam. which consemucntly rescm-
$\qquad$ a hit of temper. His outstanding characteristic


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Jandary 6, 1902
Neens of the Dairy Industry.
(Paper read by Mr. J. A. Ruddick before the Ontario
Prices for cheese during the past season have ruled somewhat lower than during 1900, the striking feature of the market being the comparafively low prices obtained for the autumn makes
Although the wind-up has been rather disappointing to all sections of the trade, the situation ofthe low price should, according to all precedents, create a very strong consumptive demand between
now and the opening of the season of 1902 . Then there is the remarkable shortage in the sup-
ply from all sources. The latest available figures show that the decrease in the total shipthe first of May, 1901, amounts to 445,291 that the tumble in prices, coming as it did just caused the combined factorics to contract for butter instead of for cheese, and that the weather The probabilities are the shortage from New thing like 70.000 boxes. The make of cheese in the United Kingdom during the past season Was whole there is an enormous decrease in the supply of cheese up to the opening of next season's
operations. Of course, the amount in store is an anknown quantity, but it cannot be very greatly year. If stocks are not reduced to a low point be a very striking proof of the statement, fi

THE FARMER'S ADVOCATE.
have kept these instructors in Canada, instead of
means cheapness, and, although a good factory ing our competitors to win against us. Every prevent it from being kept up to the mark: the Canadian was proud of the splendid victory which ages the patronage in sending milk which is not the advertisement which Canadian cheese received on that occasion was worth a great deal, but to efforts and increased vigilance all along the line.
Having earned such a high reputation, more was ble maker is secured, he is not likely to remain
long in a place which has so little to give him in return for an intelligent, skilful service. I know as well as any person that good cheese is often
found in very small factories, but the general tendency is demoralizing, and can only have one
result in the end. we earally expected of us. The very beating whic incentive to them for employing every possible result in the end.
Then there is the comparative cost of manu-
with facturing in small factories as compared with nocent events their efforts in this direction hadian larger ones. The actual cost per pound-not counting the cost
over one cent
of hauling the milk-and this, notwithstanding the fact that everything is done in the cheapest
possible manner, and starvation wages paid to the cheesemaker. At other and larger factories,
where everything is first-class, and managed by a well-paid cheesemaker, the cost of manufactur-
ing-including the hauling of the milk-has been reduced to less than one cent per pound of cheese.
The money lost to the dairymen of Canada through this
sum annually. $\qquad$ enormous against the concrese indus try at the present time. I believe the most seri. THE BUTTTER INDUSTIRY,
$\qquad$ in rejecting any which is not in proper condition, features of it in a somewhat different position
from the cheese branch. Our exports for the past season show an increase of something like 154,-
000 packages over 1900, approaching very nearly in volume, and exceeding in value, the record ex-
port of 1899 . Prices during the past season have been well maintained. The most gratifying fea-
ture of our butter trade is that the quality of these conditions, along with the inferior milk, it ture of our butter trade is that the quality of
goes withont saying that the most skilful cheese- our butter continues to improve and give better
makers eannot than out antiele that will mee satisfaction to the consumers. Mueh of the im-

$\qquad$ A gradually declining market may have had the present-day demands of the market. The provement is due the which enables us to place our butter on the but it is no new thing, and the complaints which trained of any in the word to-day, and if they the
have come from our customers in Fngland, for were given half a chance thene would be very little than there was formerly. The refrigerator-car ignomed. It would be a dilficult thing to prove but any calling in which the wages are sometimes covernment, reaching nearly every part of the
that the quality of our chcese has actually de- screwed down as low as thirty and even twenty- country, the cold-storage warehouses and refrig-



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in it have not been given to self-laudation so letin entitled " Improvement of Cheese Curing. in it have not been given to self-laudation so letin entitled "Improvement of eneese curing much as the cheesemakers have, but, realizing dairy schools, made an earnest effort to improve
Now, it is one thing to criticize and Now, it is one thing to criticize and point out defects, but it is another and generally more
difficult thing to show how these defects may be remedied.
It is obvious that if large factories are to
take the place of the smaller ones, that the patron must be convinced that it will pay him to do so for the sake of the industry as a whole Something might be done by giving prominence to annual statements of large and flourishing
factories. The lower cost of manufacturing would appeal to the average patron as no other argument would. I would have more edge put on the work of the travelling instructors. These men have done excellent work, and I have no fault to
find with them, but they have been hampered a good deal by not being entirely independent of the factories. This applies perhaps more par ticularly to Eastern Ontario than it does to the
western part of the Province. The instructors western part of the Province. The instructor should give more attention to the milk supply then be in a position to state the bare facts to those concerned without prejudice to their own
interests. I am afraid there has been too much interests. I am afraid there has been too much
tendency to peace and popularity. If the true state of affairs were better understood by patrons they would not be so ready to support the poor factories where such indifferent work is done.
It would be a good thing if some means could be devised for compelling the proprictors of many cheese factories and creameries to improve the sanitary condition of their premises. The remark which one hears concerning the offensive char are often so pointed as to make a man feel al most ashamed of being connected with such an industry. We might very well follow Denmark's which lays upon every cheese factory
ery the obligation to provide proper drainage. It is specified that all waste and slops must be con veyed in a closed tile tram the factory. With the floors of cement con crete or stone flags there is then no danger of nuisance being created or the water supply being contaminated, as is too often the case in this country, If the general appearance of the facwould not only raise the general tone of the business, but it would be bound to have an influence on the patrons by encouraging them to do their part better. Cheese and butter makers are a good
deal to blame in this matter, for I have seen many places where the makers were so untidy in their work and personal appearance that for them to complain of tainted or unclean milk would be an absurdicy, in much effect in any cast very likely to have much effect in any cast.
I could relate many specific cases where product of a factory has been contaminated through the unwholesome conditions arising from ter of fact there can be 110 effective drainage water-tight. I hope to see the day when Cana-
dian cheese factories and creameries will all have cement concrete floors. They are not so nice to put dorwn the cement floor wirl last as long a
 the conspicuons neemts of the Canadian danity
factorires.









plishing this result, may be obtained by applicaWhen checse have a "weak open body." the Jame may be laid entirely upon the cheese maker. It is the result of insufficient development of acidity in the curd before salting and putting to press. Lack of judgment and haste to defect in the quality of our cheese. Makers who are not well grounded in the principles under Mying their work are not able to readily adjus heir manipulations to meet che changed cond POOR BOXING.-That much of the Canadian cheese reaches the English markets with the bo es in a disgraceful condition cannot be denied by anyone familiar with the facts. The steamship loading and unloading cheese since representaions were made to them on the subject by Prof. Robertson, but the fact remains that there is till a very large percentage of boxes arriving in much from the appearance and value of the cheese. The agents of the Department stationed at London, Liverpool, Bristol and Glasgow reported as many as $10,20,30$ and even 50 per
cent. of the boxes in a whole cargo as being fanded in a damaged condition.
The main reason for this state of affairs is that the boxes are too flimsy, and not well enough made to stand the handling. Many boxes are madiciently nailed. It is said that the price of boxes has been beaten down until the manufac they might make if paid a reasonable price. Threugh lack of management on the part of the fit the cheese properly. It is a common thing t Ind boxes fully one inch larger in diameter than
the cheese which they contain. and it is among the checse which they contain, and it is among
these that the largest proportion of breakages occur. There are some cheese which carry to their destination with a very small percentage of
broken boxes, notably those from Prince Edward Island and from some of the factorics in the Brockville district. It is because the boxes are
well made and fit the cheese snugly. The factories in the Ingersoll and Listowel districts also have a reputation for attending well to the mat
ter of boxing their cheese, and they are well re paid for doing so. It is regrettable that all fac-
tories cannot avoid mistakes of this kind, for it is a simple thing

$\qquad$ mark the boxes and marking of the weights. To satisfactory method. Which should not be tolerted any fach st A sher There are a good many cheese with too much acid, and then we have special taints or flavors
such as "fruity," "rancid," "parlicky." etc., which appear from time to time, like infectious overcome such difliculties as these we need more the past summer in comnction with the appearance of "hitter" flavor.
FL $\Lambda V O R-I t$
sal sate that the principal defect in the quality of (Canadian butier, as in
the buter from any other comntry, is in regard rise to this doffect are many and not always gasive lage over the cheesemaker inasmuch as he has it havored formomention extont by the use of good fire to do this is one reason why the butter is
 "starter" produces a hail havor instead of al pects to reap "xatctly what he sows. If he sows out what the result will bee it is noed possible point meod any more than it is the ene an staptors of when
name fand mustard smod. The dill conty is that
h warm, moisture-laden air to get in, causing dampness and higher temperatures. An anteroom should always be provided where butter may be chilled or helacer the creamery and the refrigerator car by being carried in the hot sun withou protection. I have seen it left for hours on a station platform exposed to the same injurious influence. That is one rea refrigerator cars in a soft condition. These cars are only intended hold butter in the condition it is in when delivered to them.
Referring again to protection would point out that a tarpaulin made impervious by means linseed oil should never be used. The oil seems to absorb heat, and anything lying immediately under such a covering with the sun shining upon posed to the direct rays. A canvas cloth without any oil is all that is necessary, and it will top of the load in order to allow the air to cir The agents of the Department have reported some cases of mould on Canadian butter during seasoned timber in the boxes, but it more often is the result of the boxes or parchment parei
being infected with mould at the creamery. great deal of carelessness is displayed in these watters, and if you go into the parchment paper lying about with out any protection when it ought to be handled as carefuly as ane the paper should be soaked for 24 hours before using in a strong brine made with boiled water and to which formalin is added at the rate We have ounce ormatin Government creameries since this practice was
What has been said about the importance of neatness and care in branding cheese might very properly be repeated regarding butter. Indecd, ter lacks very much the attractiveness and finish which characterizes the product of our competi
tors. Therefore. I urge that more attention be

Methods of Creaming Milk Compared. ebout which the maiority of farmers have $t+i l$ much to learn. The improper handling and loss of profit in dairying. During the past year $I$ tested hundreds of samples of milk, and I was butter-fat left in the skim milk-all the way from halr a per cent. to over one per cent. This meant ter the cows made, the farmer deliberately wout one. Such farmers will frequently say: "Oh but the skim 1nilk is good for the calves !" Are
these same farmers raising such fancy stock that they can afford to feed them a food that sells fol discuss 20 cents a pound? I think not. Let " ing milk. Then we can draw our own concluor natural method, and the centrifugal or arti neial method. The cream is obtained by the firs pans, hy deep cans, and by the addition of water SIIALLOW PANS.-For centuries shallow pan (i) hasins have heen used, and while they have sirved a good purpose, still not much can the said
in their favor. However, there are conditions minder which the pans may be recommended Where a person is only kepping two or three cows,
or where water is scarce and ice hard to procure, Ir a man cannot see his way clear to invest in to them is that there is such a surface of the vegetables and food are kept. Under such conditer, for of all thines milk has the greatest powel
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First-prize carload aberdeen-angus cattle.
knife glide the cream into the crock. If properly
done, as much cream may be obtained by this done, as much cream may be obtained by this nethod as by the deep cans and ice. The cream proper skimming.
THE DEEP
CANS have much in their favor over the shallow pans, as many know who have used both. Cold water is the one essential thing
in getting good results from the deep cans. The water to do efficient work must be 45 degrees in
summer and below 40 degrees in winter. Milk, or a number of reasons, is harder to cream in winter, hence the need of colder water. Few
springs or wells furnish water cold enough to springs or wells furnish water cold enough to
raise the cream, yet in my travels over the country I find dozens of farmers who put up no ice and who use the deep cans. I have seen the cans just in a tank under a tree by the pump and the
water changed once or twice a day. I have frequently tested samples of the milk, and have found all the way from six-tenths to one and onehalf per cent. of butter-fat in it-a loss sufficient to take away all profit
A water-tight box or barrel does as good
work as an expensive cabinet creamer ; but the latter is very convenient, as milk may be drawn at any time without lifting the can or disturbing
the cream. Avoid spilling milk in or about the the cream. Avoid spilling milk in or about the tank that holds the cans. Keep the water pure.
Have it come up as high as the milk, (and see that ice or snow is in the tank all the year around. In warm weather it is economy to have ice in the water all the time, as when the water
gets warm it takes a larger piece of ice to reduce gets warm it takes a larger piece of ice to reduce
it to the proper temperature. Many use nothing in the water in the winter time. This is a mis-
take. Ice or snow should be used to keep the water at 40 degrees or below. expect good results. The heat from the milk the snow acts as a blanket to keep the milk warm and the creaming is not very satisfactory Allow the milk to stand 24 hours in summe
and from 36 to 48 hours in winter. Last winte 1 and from 36 to 48 hours in winter. Last winter end of 12 hours and at the end of 36 hours. All conditions were as favorable as possible.
average of a number of tests showed a loss of per cent. butter-fat in the skim milk when drawn
off at the end of 12 hours. The milk which stood 36 hours had only. 3 per cent. butter-fat in it
This showed the advisability of allowing the milk to stand a sufficient length of time befor running off the skim milk.
DILUTION SEPARATION-I have nothing to say in favor of the hydrolactic method of obtain ing the cream. If you wish to test it, you may
do so without buying the expensive cans that ar on the market. Just take an ordinary can, fill
half full with the freshly-drawn milk, then till uf half full with the freshly-drawn milk, then till up
the can with water and lut stand from four th twelve hours. At the end of that time you wil
have a lot of watery skim milk. Test a sampl of this; multiply the result by two, for the mm
is half water, and you will find you are iosint
7 or 8 tenths of a per cent. butter-fut

cream, and we certainly have left the best to the last. I like to talk separators to farmers. Not
that I have any interest in a machine, for never sold one in my life; neither do I advocate one make over another. But I do know that in the majority of cases where farmers are making butter at home or selling cream, they could put
money into nothing that would so soon pay for itself as in investing in a cream separator. Auyone having eight cows or more cannot go far astray in buying one. In all my intercourse with people I have yet to mect the person who has
purchased a separator and is willing to go back purchased a separator and is willing io go wack does the buying of a separator mean? In the first place, it means less labor-no small consideration when help is so hard to procure. In
the next place, it means, at a low estimate, a pound more butter a week from each cow in the herd, and if the cream is properly handled it should mean a better quality of butter. The machine takes out the dirt, and the milk has had
no opportunity to absorb impurities by standing no opportunity to absorb impurities by standing
around. The fresh warm milk, iudiciously fed, makes better calves than those fed on skim milk from the cans ar pans. I know there is a difference of opinion on this point, but more knowlIn buying a machine, get one of a good, reliable make, one of sufficient capacity, and one that is easy to turn and does not take too long
to clean. Most of the makes do very thorough to clean. Most of the makes do very thorough
skimming-they have to, to hold their place in skimming-they have to, to hold their place in
the market. Not more than one-tenth of a per


THE FARMER'S ADVOCATE

## The Ontario Winter Fair

ied. Only succ as show evidence of the phen breeds are likely to prove profitable feeders. They must be low-set, wide-chested, smoothiy curnen, and have a sot, plastic hide and he feed they consume. The ill wigh boned sort should be left severely alone, 110 matter how big or how low the price asked, as the chances are that they will prove unprontanle feed ers, and one or two of such in a bunch of good
ones will handicap the sale of the lot. Uniformones will handicap the sale of counts for in good deal in the selling of a bunch of catcen and buying
should be considered.in the selection If one cannot get the number of the kind he want
in his own neighborhood or within a convenient distance, it may be well to cimmunicate with a distance, and arrange to select irom a bunch when they are gotten together. Some feeders, by watching their opportunity, have succeenc a getting sa there is a large run of cattle in o the demand is not very brisk, and some hav done well by leaving the selection to a reiable dealer at the yards, with instructions ${ }^{\text {good and well-bred cattle shall be included. The }}$ weight of cattle bought in November for the ex port trade in the spring should not be less
1,000 lha
los., and had better te $1,100 \mathrm{lbs}$. (1) 1,200 1,000 lbs., and had better te $1,100 \mathrm{lbs}$. to 1,200
at say two and a half years old. On good old pasture, where they can get through most of November, but if grass is shor or of a soft and watery nature it will be cecinomy to feed them some hay or corn fodder in racks ir boxes when the weather gets colom losing fiesh, a flesh lost at this time must be made ul) tefor any gain in weight can be made. When the animals are placed in the stalls or sheds for
feeding, assuming that they are to be red to first for sale in the early shight and should sist largely of roughage or bulky food such a hay, straw and chaff, with a few roots (ir a light ration of silage is apt to wcur when a sudcien change is made from green to dry feed. change is fed in the first weeks it should be of light nature, such as a mixture of !
ground oats or barley, to be gradually ground oats or barley, to be gradually iucrease
in weight and strength until full feeding is in weight and strength until fests at ine exper mental stations has shown and the experience that light grain rations are more economical and months of the feeding period. In the fimishing stage the grain ration may well bo made ticher,
but at all times there is aconomy and satety, as well as science, in feding a mixture of getins, is well if the price of bran and oats is such as to
justify their use that they should form a part of the ration, and at all times the grain ratione should be fed mixed with cut hay or straw, silage
or pulped roots, or, better, with a combination of these, in order that in the processes of mas-
tication and digestion the elements of he tood may be assimilated to the best advantage. It is ing out of stables is an important factor in the steady gain in weight of the thimals. Compor his end. $1 t$ is a mistake to allow the cattle tween the times of feeding, and care should te from lice or skin disease of any kind, whd w this the hair should be clipped short the whole length
of the back and about the root of the tail, and to secure cleanliness the switch should also be
shortened and reduced in bulk. But the fiyst thing to be done is to secure the catile, and uhe main
object in writing this article is to reminol those object in writing this article is to remide those
who have not anreanly made their selections, that November is the last month in which thas can be

## the excelled all previous events

 anada the number of ries of live animals and dressed carcasses, in the display of poultry and in the number of cows competing in the milking test. The attenaance of casion, the gate registers showing that more than twice as man people passed into the building as in 1900, when the attendance was double that of the previeus vith the farmers, as it should, for the reason hat it is purely agricultural and educational all its features, showing the best types of 1ment making animals. The stais and per an excellent full of stock, 1 equal on the whole to that of former years, though perhaps the best cattle were not as good as some seen her and the same may be said of were never better, and the exhibition of poultry was the greatest and grandest ever brought to gether in America, every class being well fille with typical birds in the minest bloom. all mangement of corramme being carried out with commendable promptness and punctuality, anc the only complaint heard being that the magni ficent building erected for the permanent home of he show, and accommodation, is already found to be too small for its purpose, the expansion of the show urgently demanding more room for stock, for judging rings, for the passing of the ever-increasing crowds of visitors, the great gathering of farmers eager to hear the addresses he experts on the types of anthats of producing them. well chosen, and their work was on the whole well done, there being less friction, less dissatisfaction and fewer complaints regarding the decisions than usual, good sever available. This, we regret, is more than can be said of the work of the judges of dressed carcasses, which was in nearly every case out of harmony with the decisions in the and feeders in the lecture-room, when attempting to explain and defend their work, would go far towards defeating the educative purposes of tained of the honesty of their decisions from the butchers and evidently gave proference to the carcasses that would cut up most profitally tothemselves, without any regard to the froducer's interests. We presume onent judges in the rules of the show to judge from a breder and colve given first place, as they did in the purc-rce leggy and light-hammed, that was termed a Texan
in the show-ring, or to that of the shamble-
 ample of the kind not to raise for profit to the quired for the best hacon trade, as was that
$\qquad$ White the entries in gractes were humerous and
mostly of a very qood class. the liberan prizes
offered for purethed stecrs do not bring out entries sulficient to claim the prizes. This is sup-
posed to be owing to the active demand for bulls in the last few years, fewer heing altered than
formerly, but it is a question whether it would not be more pronitable in the tong rur to raise a bull than a steer. The catile were alt and Robt. Miller, Stouftivile. Ine class for Shorthorn stems over two and under three years there was one entry forward, a
large, fleshy, well formed, white animal named
Sinowbant, shown hy (ieo. Dickie, Hyde Park. Inclaim the prizes of $\$ 40, \$ 30$ and $\$ 20$ in stome
under one year there were five entries forwand

Kupert Coates, Nappan, N. S., and will probably nake their mark at the Maritime Winter Fail ext year. They will be watched with interest liy ontario feeders. The shown by G. Walker, Ilder on, and fourth to a handsome and well-balanced white calf, Reciprocity, shown by which needs only son of Imp. Knuckle higher rank, which he is likely to do, since he has been sold to Israel Groff, of Alma, whose cunning hand will doubtless bring out to see he posqualities which mall degree. In the class for cows esses in three years and over the first place was given to a smooth red four-year-old shown by A. B. Baxter, Hamilton; second to a level and wellformed roan of the same age from the herd of J. Galt Heifers two and under three years were well led by the white free-martin, Barmaid, by Abbotsford, shown by Harry Smith, Hay. This was a model beef animan, thickly fleshed. The second place was given to Felicia, a blocky, beefy white heifer shown by E. Jeffis \& Sons, Bond Head, and third to Jas. Gibb, Brooksdale, for Nerissa Jewel, a he heifors a strong showing the section for yearling award went to the sweet was made, and the first arward went Jas. Leask, Greenbank; second to Easter Lily, a charming roan, full of quality and character, though not fat, from the herd of Son, Rosoville, for Roan Queen by Kinellar Stamp. The sweepstakes prize for best Shorthorn steer, any age, went to Col. McEwen's white calf, Blizzard which was second in his class, Kiny entst-prize calf, thepstakes, a contingency which, it would appear, should be provided for in the rules by making all first-prize winners eliglbe for he sweep stakes is compertainly desirable that the best in the class should win. The femate sweepstakes wimm Jas. Leask's yearling, Money May, though many
minds turn to Harry Smith's Barmaid as being the better butchers' beast as they stood. HEREFORDS AND POLLED ANGUS WCr heifers, which were grouped with the steers (o which there were few and nothing striking), the F. W. Stone Stock Co., Guelph, winning first i. rood Hereford heifers, Walter Hall, Washington coming second with Polled Angus, and James Bowman, Guelph, first and second in the under-a year section with handsome helters of the Aber GALLDOWAYS AND DEVONS showed togethe won the first prizes in every section but one, A hibitors and principal prizewinners, capturing first in the two-year-old section with the typical beef animal, Flora McErin 2nd by McCartney Melle B. by College Gambler. W. J. Rudd had the first-prize calf under a year in his Devo ioned youngster. The two-year-old Devon steer Joker, which got into second place in the section two entries appeared)-a leggy, narrow, cat
hanmed "critter," though in good conditionwas appropriately named, as the sequel showed dressed-meat competition by the butcher judges whom, it was considered from their work, might
well have registered from Bullock's Corners in The back townships, since they preferted the prod years ago.
GIADDES AND CROSS-BREDS were by all odds the most interesting class in the cattle de partment of the show, most of the sections being well filled with a good tsour-old-steer section, James Leask, Greenbank, had the first-prize winner in the white son the great sire, Moneyfuffel Lad, aptly named
ith the championship award as the best beast in

the show, male or female. He was a beautiful animal. evenly balanced, thickly and smoothly

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Jandary 6. 1902

## THE FARMER'S ADVOCATE

ts a good Galloway grade. Pride of the Oaks, a cup valued at $\$ 75$, for the best single animal, the peared here for the first tine at this show. model export sleer, in, strong force, numbering nive entrics, with hard1y an inferior one in the lot, the first award going to a handsome, thick-fleshed, well-proportioned
red steer bred and exhibited by Jas. Green, red steer bred and exhibited by Jas. Green
Fergus ; second to one of similar stamp, and Cergus; second to one of similar stamp, and a
close competitor, bred and shown by Jas. Leask and sired by the bull, Royal Banner, sold at one of Mr. Flatt's Chicago sales for $\$ 1,500$. Third place was given a deep-bodied, sappy, good-feed-
ing steer of grand appearance, shown by Jno ing steer of grand appearance, Shown by Jno.
Tickieson, Eramosa. In grade stecrs under a
year old. Fried \& Son. IRoseville, had the first year old, Fried \& Son, Roseville, had the first
winner, a handsome, full-fleshed son of Kinellar winner, at handsome, full-fleshed son of Kinellar
Stamp, N. H. Black, Rockwood, coming second Stamp, N. H. Black, Rockwood, Coning second McDougal, Guelph, third with a young calf of fine hepe, which should prove a hard one to down The most remarkable animal in the show was
James Leask's three-year-old grade Shorthorn James Leask's three-year-old grade Shorthorn
heifer, Bess, by Moneyfuffel Lad, weighing 1,900 lbs., and showing wonderful development of crons
and brisket, with a strong, level and thickly and brisket, with a strong, level and thickly-
fleshed back, well-rounded and deep ribs, long, level quarters and full twist. She is a wonderful sister, Flo, the 1900 champion of the Winter Fair. James Bowman's Aberdeen-^ngus grade, Miss Canada, a smoothly-formed and well-fleshed
heifer, was the second winner in this section, and heifer, was the second winner in this section, and Daisy, of a good sort. Leask was first again in the two-year-old-heifer class with Bell, still an other of the get of Moneyfuffel Lad and full sister
t.o bouncing Bess, the three-year-o'd above decribed. She is smooth, compact, evenly-fleshed, Y.; Cotswolds, Leicesters and Lincolns, Lens, Jas,

bess and champion
 vere second with a grood, big. useful heifer, and lampshires, J. I. Tolton, Wallserton; Grades here first in single yearling wethers, first and cood one EXPORT STEERS-A very useful and com- 47, and made an excellent showing in every sec mendable chass of prizes were hose of $\$ 15$ and $\$ 10$ ofered for the lest three export 1 Burgessville: John Ravlings, Ravenswood; E. steers, to have been owned and fed by the exhib- Brien \& Son, Ridgetown, and J.C. Ross, Jarvis. itor for at least thrce months previous to the The last-named exhibitor showed an exceedingly show. Six uniformly good lots were forward, good pen of ewe lambs, on which he won the
They were smooth, fleshy, well formed and well first, second and fourth prizes for single lambs, They were smooth, fleshy, well formed and well first, second and fourth prizes for single lambs, bred, averaging between 1,350 and 1,400 mo., which were really among the seest at these shows in recent years, being full of and one could int but wish country. The judges, character and quality and in splendid condition. Messrs. 'T, Crawford and Jos. Gould, export The third prize went to a right good one of
shippers, phaced the first award upon what was Brien \& Son's entries. The first-prize pen of shippers, phaced the first award upon what was Rrien \& Son's entries. The first-prize pen of
clearly the ideal trio for the trade, shown by three ewe lambs were also of Mr. Ross contriclearly the ideal trio for the trade, shown by three ewe lamps were ats of whe
James Rennie, Wick, and sired by the Edwards- bution, the second going to Rawlings, third to dames Rennie, Wick, and sired Hamilon, breedy-looking fellows, Brien \& Son, and fourth to Park \& Son, who covered with mellow hides and soft-handling hair, were strong in yearling wethers, winning the
with broad, deep bodies and full of flesh but not first, second and third awards with sheep of exfat the second place was given to a smooth lot cellent quality and finish. Rawlings took the of similar stamp but showing less
 -xactly the right type, liut, in the opinion of the won all three prizes for yearling wethers and celared disqualified for competition owing io LINCOLNS-In this class the exhibitors were one not having been owned by the exhilitor a J. T. Gibson. Denficld, and Graham Walker, Ader-
cumficient length of time to comply with the rules, son, who both showed very excellent specimens of
and Naior Ilood's second-prize trio were moved the lireed, the former winning first and second




HAMPSHIRES AND SUFFOLKS were classed ella, followed for second and fourth by Dedels'獬 by Telter Bros., Paris, Who wo first for single ewe lamb, and John Kelly, Shakespeare, who took second and third in the same section. James and second in the section for yearling wethers
and wether lambs, also first and second in both and wether lambs, alsu first an
sections for dressed carcasses.
GRADES AND CROSSES.-This was an exGRADES AND CROSSES.-This was an exover 100, the crosses being various, and the qual-
ity, with few exceptions, of a high standard. John ite, with few exceptions, of a high standard. John
Campbell, Woodville, with Shropshire grades, led Campbell, Woodville, with Shropshire grades, led in the sections for yearling ewes and for yearling
wethers, in which last he was also second, R.
. Gibson's entry being placed third, and W. Wright's (Glanworth) fourth. E. Brien \& Son,
Ridgetown, came second in yearling ewes, and J. Ridgetown, came second in yearling ewes, and $\mathbf{J}$. grade wethers under one year, Campbell was first, R. Gibson second, Orr \& Lillico third. For single wether under a year, Campbell was first
and fourth; A. Richardson, Peepabun, second, and and fourth; A. Richardson, Peepabun, second, and R. Gibson third. For single ewe under one year,
Hastings Bros. won first prize, John Campbeli second and fourth, Richardson third.
In the sweepstakes competition for the best In the sweepstakes competition for the best
grade or cross-bred ewe or wether under two grade or cross-bred ewe or wether under tiro years, the only sweepstakes in the sheep depart-
ment of the show, John Campbell won with a mentel mutton sheep, a Shropshire grade yearling wether, pronounced by many expert judges at Guelph the best mutton sheep out this year. Mr. Campbell's success in this class was very credit-
able able, he in five out of the six sections for live animals. T. C. Douglas, Galt, hat the rescrve num-
ber in the sweepstakes competition. ber in the sweepstakes competition-
In the dressed-carcass competition for grades and crosses, the first prize in both yearling wethers and wether lamb went to John Brown,
Galt, the second prize in each to $\mathbb{R}$. Gibson, and Galt, the second prize in each to $\mathbf{R}$. Gibson, the judges in this division were exceedingly unpopular and were severely criticised, the feeling
being that Mr. Gibson's entries were of much superior quality to the winners, which wene lack SWINE
Never before was so uniformy good a show ing of typical bacon hogs in so many classes
brought together at a winter fair in this country, all breeds showing vast improvement in the desired direction and judiciously fed and fitted. The judging was well and satisfactorily done by ing in the various elasses being as follows: Poland-Chinas, Chester Whites, Inaroc-Jerseys,
and Essex, Thomas Teasdale, Concord Jorkand Essex, Thomas Teasdale, Concord SorkElgin: Berkshires and grades, $\mathbb{R}$. H. Harding,

BERKSHILRES were never stronger in numbers nor quality, the class being well filled in every
section with lengthy, well-proportioned pigs. section with lengthy, well-proportioned pirs.
standing well on the best of feet and leas, with standing well on the best of feet and leers, with
well-packed backs, smooth shoulders and wellin their production, and do the country a good turn by standing firmly by their faverite breed.
In a strong class of barrows over six months and In a strong class of barrows over six months and
under nine, Snell \& Lyons made a cantital showing, winning with first-class specimens lirst and
fourth awards, second going to an excellent entry by Geo. Green. Fairview, and whird to
Durham \& Cavan, East Toronto, who were first Snell \& Lyons taking second, third and fifth places, and Wm. Wilson, Snelgrove. fourth. In sows 9 months and under 15, fourth awards going to John Kitching Corwhin
and third to Wm. Wilson. In a splendid class of sows six months and under nine. Wilson securad fine character and quality, second going to rize, of sow of smitar stamp to G Gavan In sows under six months, in a verystrone show
ing, Green came in first and tith simell \& yon second and third, and Durham © Cavan foumh
For peni of three pigs, offspring of one sow and
bred by exhibitor, Green stood first. Smell ,
$\qquad$

Dedels second, and Davis CHESTER WHITES.-In this class, which was stronger than usual, and we the firm of Bennett \& Pardo, Charing Cross, made a splendid showing of smooth pigs of excellent type, and secured the first award in every section of
the class but one, and the second in five out of the six sections. D. DeCourcey, Bornholm, with capital entries, secured first in barrows under six months, second for pen of three the produce of sow over nine, and for sow under six months. POLAND-CHINAS made a good showing, and brought out a capital lot of pigs, showing fine quality of flesh, with good length of body, smooth hams. He was successful in winning the first prizes in every section of the class, incta one sow W. M. Smith, Scotland, stood in second in three sections, Smyth taking the other strong force, and made an excellent showing of typical baconers,
A. Elliot \& Son, Galt, winning first in both sec tions for barrows, D. Douglas \& Son, Mitchell. being second in the older section, and in sow sixt
months and under nine, Douglas \& Son were first with Lady Minto and fifth with Betsy, J. C Nichol being third and fourth. In sows under six months, W. R. McDonald, Ridgetewn, scored while for Douglas \& Son stood first, Elliot \& Son second Nichol thir
DUROC
Tape, Bentpath who with excellent specimens won the first prizes in five out of the six sec exhibitor, won first for sow 9 months and unde 15, second for sow under six, and second fo produce of a sow.
ESSEX were whell shown by T. A. McClure Meadowvale, and J. Featherston \& Son, Streets ville, who had out lengthy, smooth, well-propor
iioned pigs, the prizes being nearly evenly divided by the rating of the judge.
GRADES AND CROSSES made GRADES AND CROSSES made a strong an
very interesting class, showing capital qualit very interesting class, showing capital quality
and type, the prizes being widely distributed. In the section for barrows six months and unde nine, first place was given to a Tamworth grace White grade shown by Bennett \& Pardo, an Smith. In barrows under six months, the Cheste White grade entry of Bennett \& Pardo won, 10 ,
lowed by a Tamworth grade shown by John Park \& Son, and third to J. C. Nichol for
Tamworth grade. In sows six months and unde nine, and also in the younger sow class, Elliot if EXPORT BACON HOGS.-In the very interest fure-breds and grades for the best pen of three export bacon hogs, there was strong competition. first with typical hogs, J. Featherston \& Son second with a similar selection, both shese en
tries being Yorkshires. Snell \& Lyons were
third with a capital pen of lengthy Berkshires and J. R. Newell \& Son, Crampton, fourth with A. Flliot \& Son scored first with Tam wath
grades, John Park \& Son second with Tam grades, John Park \& son second with Tam
worths, and T. A. Mcclure third with Fsse
crudes

won first with Yorkshires, J. Featherston \& Son Chester Whites. For threr dressed carcasses o T. A. Nocrure, third to Jolin Marles. Second io Girst prize for his hean-meat Wozs of Yorkshine Thester grate. Which were fod mainly on slaugh
ter house othal.
Fror the lach
 hrothom secomb with Yorkshires.


Carcass Standard at the Fat Stock Show.

While the judging in the live stock classes the recent Winter Fair at Guelph was the clean the recent est and most satisfactory all-round judging seen at these shows for many years, there heing n friction in any departmen, art agree with me in the carcass competition the set by the judges in the carcass competition, the question, Was ith many and expressed by no chought presen who made the award are their rensons for theirgs in the Nate expressed strong dis acture-room. whe standard set, and only one speaker sided with the judges. The latter cor sidered that the judging of cattle and sheep hould be from the baw the fallacy of that argient into which I will not now enter. That the awards in cattle and sheep carcasse leave that of swine to those who followed the the local butcher's standpoint and his every-day trade was quite evident. But the question then comes up, Is it the aim of the fat-stock show to in ordinary condition, fit for the every-day shop in ordinary or is the object the placing before the consuming public the best specimens of the breed er's and reeder's skill, to meet the demands the special which will give the top price for the thick-fleshed and well-finished animals, while it may take such as the set standard at a secondor third-rate price? Surely we get enough of the thin-fleshed type, which markets everywhere at prizes at fat-stock shows.
If the decisions at Guelph were correct, ho If the decisions at Guelph were correct, how
is it that dealers catering to a high-class trade here and elsewhere are always ready to pay a
superior price for the fleshy and ripe sheep or superior
bullock ?
The judges, while justifying their awards, laid a great deal of stress on the loss from fat in the ripe carcass. No one will dispute that one very
fat carcass of beef hung up, was just the opposite extreme from the one on which they had placed
the first-prize ribbon. But the happy medium carcass, furnishing the tender, juicy, loothsome cuts, was placed lower down the list, with the Let us consider that a moment. Suppose an
fat, say twenty pounds, could be found, what then ? I do not know what the skeleton of such a thick-fleshed, 800 -pound carconvenience, and, further, we will allow the pounds, with no waste fat, but having the same weight of bone as the other. Then it follows
that in the first instance we have 80 pounds bone 20 of fat and 700 of flesh. In the other we get 80 bone and 620 flesh. In one we have 1 of bone to $8 \frac{3}{3}$ flesh, and in the standard carcass 1
of bone to $7 \frac{3}{\text { 首 flesh. In the first we have } 20}$ pounds fat of some alle while the other has a larger proportion, in same ratio as bone, of
sinew and other undesirable qualities. And reckoning both to be worth ten cents per pound, we find the flesh of the thick carcass, less the
bone, costing the consumer eleven cents ver pound, with the 20 pounds fat thrown in gratis while that of the standard carcass costs practically the same per pound of clear flesh.
Which, then, of the two is the most desirabie for the consumer? And it was much the same the thin-fleshed ones won the ribbons. At Guelph, last year, the thick-fleshed muttons were given the atwards, and especiaily so in the lamb classes,
while this year the skinny ones were again set as classes, but more directly in the lamb-carcass
competition, and more particularly in the gradecompetition, and more particularly in the grade-
lamt class. $\Lambda$ nd
we need not wonder that mistakes were made in the sheep department, as not
a carcass was cut up before the judging was done. That was a departure from all previous Judgings at our Winter Fairs. Afterwards, when
the cutting was insisted on. in the lecture-room it was very was insisted on, in the lecture-room,
perts who placed the awards could not justify rows six and under nine monthe foing to N. W
Mrethour. Murford: second to R , K.ers. Mimos. six months were led by the seond going to H. Wais II...
$\qquad$

THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS.

 terest, or which happear to to e asteced out of mere curro ositly:




## Veterinary.

unthrifty calf. A valuable pure-bred heifer calf was dropped
on Feb. 15th; was fed on new milk until she was six months old, with a grain ration of about $2 \frac{1}{2}$
or 3 pounds of bran, oats and barley (equal or 3 pounds of bran, oats and barley (equa
parts), all finely ground; had all the clover hay grass and green oats and peas she would eat water ahead of her all the time; was inside in dark box-stall, and had frequent runs outside for
exercise. When I stoped giving milk, she did not drink much water, and gradually refused grain food altogether. I stopped offering grain, and substituted green corn and turnips. She ate those all right for a time, then refused them altogether She her bedding if we are not careful. Lately gave her seven ounces of Epsom salts and put her back on milk again; am giving her now about 20 pounds new migh and morning), with a teaspoonful of salt in night and morning), with a teaspoonful of salt in
each feed. She eats a little hay and a very small quantity of sheaf oats. The milk is taken ravenously. (1) Am I doing right in feeding the milk? (2) What is the matter with her stomach?
(3) What must I give her to improve her appetite (3) What must I give her to improve her
and digestion? She has never scoured.

Ans.-Your calf was fed too highly, and did not get sufficient exercise. The functions of the digestive organs were overtaxed, and as a result the appetite beame, capricious. By carereul feednormal condition. New milk is certainly the best normal condition. Now miet you can give. Allow a limited amount of well-saved hay and roots in small quantities. Get the rowing prescription, put up : Powdered gentian, $1 \frac{1}{2}$ ozs.; powdered ginger,
1t $\frac{1}{\hbar}$ ozs.; powdered sulphate of iron, 1 oz ; powdered nux vomica, 1 oz.; bicarbonate of soda, 3 ozs.; miz, and make into 24 powders, and give one every night and morning, mixed with a Repeat the prescription if necessary. See that she gets regular exercise. As the appetite improves, increase the amount given, but be careful to not allow her at any feed any grain, let it be pround oats and bran.
swelled leg-umbilical hernia.

1. I have a horse, six years old, that swells bruise from a chain in the first place disana bruise from a chain in the first place; disap-
pears altogether when he is working, but swells very large when standing in the stable. Was fed
very heavy last winter. What would you recommend? Also a horse colt, about four months old 2. Also a horse colt, about four months old,
that has a lump in bag about as big as an egg. Sometimes it is bigger, and sometimes no sign of
it at all. Several persons say it is a rupture it at all. Several persons say it is a rupture
others, that it is simply water. First noticed it when colt was about a week old. What is your
opinion, and will it get better? Ans.-The swelling of the leg is due to lammat with terfering with the circulation. When exercised,
the circulation is stimulated and the swelling disappears. The application of a bandage to the parts during the time the horse is prevent swelling, and if kept up for conwill prevent swelling, and if kept up for con-
siderable time will probably dissipate the tendency to swell. If you do not require him for Work, it would be good practice to give him a rest and blister the part.
2. Your foal has scrotal hernia, and if left alone, nature will effect a cure. It is probable he alone, nature will effect a cure. It is proba if not, SWEENY. Kindly let me know, through the "Advocate,"
the best cure for sweeny or shoulder slip in a horse?
Ans.-The best cure for sweeny is long rest Ans.-The best cure for sweeny is long rest parts affected and apply the following blister: One and one-half drams each powdered canthar-
ides and biniodide of mercury, well mixed with ides and biniodide of mercury, well mixed with
2 ounces vaseline. Rub the blister well in. In 24 2 ounces vaseline. Rub the blister well in. Ionger wash off with warm water and soap and apply a little sweet oil. Oil every day until the scale comes off. Keep her in a large box stall. Do not
work her or allow her to run at large. Blister work her or allow her to run at large. eir nor-
once monthly until the muscles regain the
mal condition, which will probably be several mal co
months.
suspected ringbones in coly I have a colt, five months old, bred from a
Thoroughbred sire and a very well bred dam. Its am, however, has two ringbo the colt began to hind foot. About a month ago whe co four. The two hind feet are swollen quite large and unshapely, and, to my judgment, is a clear case of ringbone. I called in a V. S, and when he examined he said he did not and thought it would be better to let it at all, and though and probably the swelling would
stand a month and
go down. But, as I do not feel satisfied, I go down. But, as I do not feel satisfied, I
thought I would write to the "Advocate" and thought I would write to the "Advocate" and
have your opinion and advice. have your opinion and advice.
Ans.-It is possible your colt has developed ringbones all round, and as the dam has two, we may say that the colt came by them honestly. A colt of the breeding of this one with four ringthough they be successfully treated and the lameness cured, there will still be the enlargements, which will spoil his sale, and I presume he will not be valuable as an ordinary work horse.
rould advise you to do as your veterinarian suggests. He, having seen the colt, is certainly better able to give an opinion than I. If, after a few weeks, the enlargements or swellings men-
tioned do not disappear, he will probably confider it wise to fire the pasterns. This certainly vould be our mode of treatment and

## ChRONIC COUGH.

My cows have had a cough for the last year or more. Would you please give me your advice Ans.-If you had described the state of health your cows were in, in addition to mentioning the cough, it might have been of material assistanc to us. So many causes may as ften one of the first indications of tuberculosis. Feed crushed flaxseed or crushed oil cake (the former prefer able) along with the other feed. The cows should be fed liberally. About one-third to one-half wound be ample for a mature animal.
henl irgement on colt's hock
T have a highly-bred roadster mare, two years old, that got hurt when a yearling on the hind legs by dropping through a log bridge. Showed bursa on the front, of the hock ioint It looks like a bone spavin, but is soft and like a bean in size. Have blistered it once, but has had no enect. What shall I do to remove it ? BROCK. Ans.-The veterinarian was right. Bone size of hot sould advise you to leave size of a bear, this nature in the region of joint are very hard to remove. Repeated blister ing may reduce it, and is probably worth trial.


Champion lincoln wether
aternational dive gtock show, chicago, 1901. property of john to othson, denfield, ont.
swelled leg - eczema

1. Please state, in your next paper, a cure for when pulling. which is very itchy. W.I.S. Ans.-1. If the swelling has existed for some sheuld be applied: Cantharides, $1 \frac{1}{4}$ drams: 1 ounce; mixed well together. (1lip hair off the swollen parts and rub in the blister. Tie up the bite the parts. Apply clean, sweet lard to the blistered parts every day for 10 days, after the in well. ${ }_{2}$ Make a solution of bicarbonate of soda, 2 ounces, water, 1 pint, and bathe the itching ball of alpes (Barbatloes), 6 drams; Calomel,
 sopped working. Give no hay during the purg tany ailments in ane be pevented by allowing ing perind maless it is prolonged beyond 48 hours both sow and pigs regular exercise and giving
Afler the purging has ceased, give one table, 在 Afler the purging thas ceased, give one tablespoonful of. Fowler's solution of arsenic in the
feed once daily for three weeks.
mare whose legs swele
2. have a mare, seven years old, that is a been so for about three or four months: swells a ittle in hind legs when standing in stable. What is the trouble? Some of my little pigs became hump-backed and low behind shoulders when about two or three weeks old, and have straightened out since weaning. What may Ans.-The swelling of the legs can be prevented by giving the mare a purgative of eight drams Barbadoes aloes and two drams ginger, in a ball. Feed nothing but a little bran after admences. then feed lightly and give regular exer cise. It is not possible to say whether the ne vous trouble is congenital or the result of dis dorangement. It can be prevenced ond pigs regular exercise and giving

Stocking of the limibs - Atony of the and healthy, but standing a little too straight on hind fetlocks, always stocks or swells when stabled. Can anything be done to prevent or
cure?
2. Have a mare, coming five years old; not nervous or excitable. Was in fine condition last
spring, but since is most of the time too loose in spring, but since is most of the time too loose in
bowels, with some discharges of wind. Does not sweat or puff easily, but is rather thin. Teeth
have been examined. Feeding timothy hay and five quarts of oats. SUBSCRIBER. Ans.- 1 . The swelling of the limbs is a com-
mon condition in horses, especially in idle torses. mon condition in horses, especially in ide horses the part or defective by the kidneys. A few doses of diuretic medicine is generally sufficient, unless the case are chronic. Give the following powders: Nitrate of potash, 4 ounces: powdered gentian root, ${ }^{4}$
ounces. Mix, and make 12 powders. Give ne in the feed morning and night. Careful bandaging
to the swelled limbs is often beneficial. Report progress.
2. For the condition you describe, atony of
the bowels, give the following : Exsiccated sul the bowels, give the following: Exsiccated sul-
phate of iron, 2 ounces powdered nux vomica,
pores. Give one level tablespoonful twice daily in

## debility - suspected rheumatism

have a mare that will not keep her flesh on
Whenever she is worked she sweats terribly even in cold weather. Have dosed her for worms and given condition powder, but she seems to be naturally washy. Is there anything you can
recommend me to give her ? I have another mare that is all drawn up
the hips. If left in stall two days can hardty use hind limbs at all. Feet seem all right. Would it be rheumatism? She had alt last year, and after I bit, and when I went to work her, that was up a bit, and when I went to work her, that was
the result. At present cannot do anything with
her. Ans. - The heavy sweats are partly due to the
mare's debilitated condition, and also indicate mare s. debintated sondition, and ore than their that the sweat glands are doing more that the
share in throwing off the waste material of the body. As the mare is supposed to be in foal, purgative dose is entirely out of the question. would recommend a cuprac of raw inseed oil the feed, three times a week; in adacion, , get a the mare carries it very heavy coat of hair, it would account in a great measure for the sweat-
ing. Have this mare's teeth examined by a competent veterinarian.
2. The symptoms of the lame mare are too
indefinite for an accurate diagnosis. The troubl certainly might be rheumatic. Would advise of bicarbonate of soda and mix thoroughly. Give twice daily.
fatality in eris.
honvily. sides ro in getting out with in breathe jerk. They are generally pigs from 50 lbs . to 100
its. weight. They stop eating, lie around, and generally die in about a week or two. Occasion-
ally one will recover. It has not been a serious loss with me yet, but I have had more of it this
fall than usual. Ans.- Smptoms and resals such as you men
tion in pigs are usually due to digestive derange-
ment caused by overfeeding and wint of exercise ment caused by overfeeding and want of exercise
Give each animal affected 4 to 8 ounces raw lin
seed oil. acording to size of pig. If this should eed oil, according to size of pigg If this should
not cause purgation, repeat the dose in 24 hours
To those not anfiectad, give al sulliciont guantity To those not anfected, give a sulficiont quantity
of opual parts Bpsom salts, sulphur and powdered charcoal, once daily in the fromi, to keen the
bowels open. Sce that the pigs pet plenty of dam dets the same. Feed a few raw roots to :ub stitute green food and heap al sumply or sods fol



reduce the amount of food, give sufficient raw
linseed oil to purge (say 8 ounces), and if this Woes not act, repeat in 24 hours. Follow up by If she is able to walk, sce that she gets regular exercise : if not, hand-rub the hind quarters frepuently, I see no reason why she should not
$\qquad$
I have a mare with foal, six years old, healthy months ago, and she started to bite the manger kinks the mangere she grunts. It seems to put
 Which may be overcome by the usis of a stram ic feen the up to the hear (1. fied hngworm.

HE FARMER'S ADVOCATE
One form ringworm is capable of being transmitted the ringworm is capable of being cransmitted ti $\operatorname{man}$;
cases. CHRONIC DIARRHEA IN MAR an you give a cure for looseness of bowels in an aged mare
good appetite.
Ans.-It is probable your mare's teeth are in such a state that she cannot thoroughly masticate her food, and diarrhea is the result. Ha her teeth dressed by a competent veterinarian. The condition may be due to other causes, as
feeding roots. Be careful to give good, clean, easily-digested food in reasonable quantities (some horses eat too much, and that sometimes causes diarrhea). To check the diarrhea, give 2 drams powdered gum opium and 4 drams eac catechu and chank pint of water and given as shaken up withen every four or five hours until the diarrica ceases. This will act as a temporary cure, but in order that the tromb nust be removed.
(1N COW
My milch cows are tearing the shingles off my
barn (shingles have been whitewashed), chewing barn (shingles have been whitewashed), chewing
old sticks and bones; have salt in their yard and spruce boughs for them to chew at; cows look well and milk well ; feeding good clover hay
three times a day in stable ; good straw outside small basket turnips twice a day; good well water to drink. Please tell cause and give remedy Ans.-A condition known as "pica" or licking disease, which constitutes a symptomate morbid type rather than a pathological change, and in which symptoms such as you describe are
present, is the result of the absence or insufficiency of certain principles, notably of nutritive salts, in the alimentary matter. This want of salts in the food may be due to peculiarities of the soil or the season, and is more frequently to give each animal a moderate purgative, say one pound Epsom salts, and follow up with twodram doses of phosphate of lime three time daily. Dampen the food with lime w
I have a three-year-old colt that was kicked on outside of hock joint about two months ago
It ran on pasture for a while, but sivelling did not go away. I have been rubbing with camphorated oil and arnica, but it is getting like a thorough pin. Advise treatment. $\qquad$ SUBSCRIBER Ans.-Tf the enlargement is soft and puffiy, and showing on both sides. it is thoroughpin Apply a little of the following with smart friction once daily, and have patience, as it sometimes
takes considerable time to affect a cure : takes considerable time to affect a cure :
Iodine crystals, 4 drs.; iodide of potash,

Miscellaneous

hlax on New land.

Aldvocate" for some time, I must say that I look and in the lest this spring, and would like your opinion on the question of flax growing.

1. Can flax the grown successfully on men Ans.- 1 . In a kood many sections of the West
dax can be grown successfully on breaking. The have for emany years sown flax on any land a bushel to the acre, It can then he backset afte trmmonite rescerve. howew, that favor this plan the sod so that it does not rot well. In fact not iound any datrimental effects except from thy srower at the start and is a delicate plant ". The selling price of flax this fall in Wint itite grown in the Therritories, and we have num


$\qquad$
home cheesemaiking
I would like some hints on beginning cheeso making: (a) Does it only require rennet to make (when coloring is necessary)? (c) What kind of press would you advise for a herd of eleven and twelve cows? (d) Would making the curd in a large barrel-churn spoil the churn for butter, if care were taken to scald it properly thave been told that cheese can be made from the fresh
separator milk. (e) Is it possible, or if not, now much cream would have to be returned to the milk? "AN OLD SUBSCRIBER." Ans.-(a) Does it only require rennet to make
the curds? Yes and no. Rennet is the only subthe curds? Yes and no. Rennet is the only sub-
stance actually used, but rennet and mill withstance actually used, but rennet and milk aithe very poor curd. The milk should be ripened-
which means the development of acid-before the rennet is added. Heat the milk to 84 degrees to 86 degrees F., then use " the rennet test." An
eight-ounce glass graduate and a one-dram glass eight-ounce glass graduate and a one-dram glass
graduate are needed. To make the rennet test,
fill the large graduate to the eight-ounce mark fill the large graduate to the eight-ounce mark
(accurately) with milk from the vat at 86 degrees (accurately) with milk from the vat at 86 degrees
F., add one dram of rennet of known strength, and stir rapidly for ten seconds. Note the num-
ber of seconds it takes to coagulate the milk. If coagulation takes place in from 20 to 22 seconds add the rennet at once. Ripen the milk sufficiently before adding the rennet so that the curd may be dipped in about three hours after
setting. Add enough rennet so that the milk will
iever do. In the first place the curd could not be Japanese millet for pregnant maries. properly cut, and in the second prace it could not lt is not a question at all of the effect on the churn re future buttermaking. A small vat should be procured and a tin pan to fit it, with
steam- or hot-water space under the pan to keep curd warm when necessary
(e) Cheese from separator skim milk.-If your correspondent expects or desires to get and hold any reputation worth having, skim-milk cheese should not be made. Certainly, it can be made,
but it is not wanted as cheese-it is of more use as bullets for rapid-firers. Always make cheese from whole milk. Add cream if you have a mar ket for a specially rich cream cheese, but for the that a milk of 3.5 per cent. fat is equal to requirements.

MILK WITH UNPLEASANT TASTE. Have a part-bred Jersey cow that is very
healthy, and is fed well on hay, grass, and meal (dry). After calving, the milk, for quite a long time tastes and is quite unfit for use, but thit passes away and no return of the trouble occur
till she calves again. Please say what is the till she calves again. Please say what is the
cause, and give a remedy. Ans.-Some cows, and more often Jerseys, Give milk of rather a bitter taste, especially just
after calving. This may be prevented to a certain extent by giving a purgative of about $1 \frac{1}{2} \mathrm{lbs}$. Epsom salts and following up by
hyposulphite of soda twice daily the use of Japanese millet for brood mares? I it injurious if fed to brood mares? Or would it cause abortion in a mare
Ans.-Japanese millet, if of pood quality can be fed with impunity, in moderate quantities, to pregnant mares, but shouk not be ied in large is certainly the with an occasional feed of bran, langer trouble occurs, hence it is wise to be very care ful, and if heavier grain than oats be given, it hould be fed in small quantities.
MOULDY SPOTS IN GILAGE-CONTINUED FERWould you please give me information about corn in silo? I opened silo December 16 th , and keeping hot? How can I prevent it from keeping hot so long? I put it in silo almost as soon as cut in field. Would water on silo prevent heating? If so, when should it be put on, and about it keep hot after filling silo? Last season it was the same, with white mouldy spots through it. the same, with white mouldy spots through it. Ans.-In answering a query of this kind, the
editor would be assisted if our subscriber would describe his silo as to depth, shape and di would and also as to the condition of the corn at the agree of filling. The best authorities on silage agree that the white mouldy spots are due to the


PART OF THE 1901 Importation of shropshire sheep
Tite property of mr. w. a. carpenter, "model farm," simcoe, ont. (sfe gossip, page 33)
feeding wheat.
oagulate fit for cutting in from 15 to 20 mint which will likely be the first you will be making, As the season advances, the time allowed for coagulation should be gradually lengthened to
say 35 to 40 minutes in the fall. Do not depend on the nose or the palate in this part of the (b) How is the curd co'ored and salt d? By adding annet to (cheese-coloring) to the milk, say
one and a half ounces to the 1,000 pounds of one and a half ounces to the 1,000 pounds of
milk, depending on the milk and the season, and adding it before the rennet, stirring it well in. adding it before the rennet, stirring it well in. market where the cheese is to be sold. After cutting, the whey is drawn off and curds are
placed in curd sink or rack on a linen strainerplaced in curd sink or rack on a linen strainer-
cloth, where they drain and mat. In 15 or 20 minutes it can be cut into blocks 8 or 10 inches square, and turned several times. In factories, these are run through the curd-mill, which breaks sionally, and in about an hour and a half it is cooled to about 80 degrees and the salt is addled. 100 pounds of curd is used, medium, $2 \frac{1}{2}$ pounds. and slow, 3 pounds. Use good dairy salt, spread

1. What amount of wheat would it take ts 2. Is wheat better ground or left whole fo
feeding.
SUBSCTRIBFR Ans-1. From reliable determinations of th composition and digestibility of wheat and oats we learn that they contain, respectively, 785 and 598 pounds of digestible matter per 1,000 pounds
of the grains. Therefore, one gallon of wheat $(75)$ lbs.) would contain 5.89 pounds, and one gallon oats ( 4.25 lbs .) 2.54 pounds of digestible matter. tain as munc half a gallon of wheat would comlon of oats. But we know that oats contain comparatively high per cent. of fat, $\mathrm{If}_{d}$ then. we ability to produce heat in the animal body, we 1.4 , and they stanct in the reation of is equal to one gallon of oats. Theoretically wheat contains, pound per pound, a little more digestible food material than oats, but for some purposes oats may have as high a feeding value
as wheat. Thus, for working horses, one pound of oats usually give even better results than the
same weight of wheat, but when fed to hous the Same weight of
orposite is true.
whence of air into the ensiled mass of corn, which when put in may not have bieen evenly distribwhat immature or unvilted and the foregoimg conditions existed, we should not be surprised at the heat in it now. The presence of air would furnich the necessary oxygen for fermentation hence the heated condateon so long after filling would out be in our opinion, of any material benefit at this stage. If corn is ripe and dry when being put into silo, watering is a decided advantage, and the handiest method of applying of ensilage cutter, with a spigot throuph which water in a small stream is sprinkled on the cut co distinguish maie from female in young Wit yon aeese. your valuable paper, through your columns, with in a flock of young geese?
Ans $-\Lambda$ s a rule, you can distinguish y. Woung males by the shrill yotes they make when they
(c) Kind of press for herd of 10 to 12 cows- and to utilize wheat to the best advantage. it
ssing. The probability is a screw and hoop

## iok storage hoids

Advocate," you would in an early issue of the Advocate," you would give an illustration and without contact with sawdust and a cold-storage Form is bailt under
shingle . you give the composition of the shingle stain advertised as Creosote, and other to weather, instead of using paint? SUBSCRIBER

Ans.-1. The general arrangement for any size


- -section of houge. Fig. 69.-8Rction of wali.
illustrations, figures 67-70 which we reproduce published by Orange Judd and referred to elso where in this issue. Large houses, says the author, require a girder and posts under the center of the ice floor, and the air flues are best
made double, one set at each side, with a drain made couble, one side the girder along the center of the room. The construction of the walls vary. Walls filled with sawdust, charcoal, tan bark or other
non-conducting materials, have been in use for non-conducting materials, have been in use for have conclusively proved that a wall which contains dead-air spaces, felt or paper linings, a section packed with mineral wool and an outer circugood satisfaction. It comprises air spaces, A which are open to the outer air at the sill and at the top open into the loft under the roof. Damp-
ers D, in Fig. 68, are placed at the bottom, so they can be closed when desired. The next sec-
tion, 13, Fig. 69, is of dry sawdust, packed in tion, B, Fig. 69, is of dry sawdust, packed in
place between walls of matched boards; the
outar surfuce of those walls is lined with prepared outer surface of these walls is lined with prepared
waterpronf paper. The inner section, E, conwaterproof paper. The inner section, E, con-
tains dead-air spaces, which are about twelve inches square. The inner wall is of matched lumber, and the outer one is of weather boards.
This construction keeps the sawdust dry, and the walls are free from dampness. The circulation of air through the outer-air spaces carries
off the heat imparted to the weather boards by the direct heat of the sun. When the air is
humid, or charged with moisture, these air chan

wastes very slowly. The waste water, from melt age, is useful for cooling milk, and the milk-room and cooling vats can be paced the same building to advantage
The floor between the two stories is arranged with openings through which the air chilled contact with che ice desm air to the upper part A flue conducts the warm air to the upper par
of the chamber, when it is dried and purified by contact with the ice as it descends on being chilled. Drains and traps carry off meltage water and dampers in flues contro stecured by air. Dryneet-iron metal floor, usually galvanized iron which forms a large pan or vessel in which melt age water accumulates. Water is very
tive of ice and must be drawn away. Where the ice house and dairy are reguire Fig 71 is cold-storage room, the plan shown in hill is not conveniently at hand, the milk-room floor may be excavated sumiciently proper fall for drain. The floor of the and slope toward the end nearest the milk room. A cheaper floor is made from spent moulders sand or coal ashes, mixed with enough lime to give at
hard finish when dry. This makes a hard, durable hard finish when roor The water in the tank must be kept above the supply pipe from the ice house, to prevent any ingress of warm air. A trap placed in this pipe is a still better method. At L, Fig. F, is double door, through w
for the tank if required
the stain, but perhaps some reader can supply the information. Creosote itself is an expensive article, worth about 40 cents per ounce in the
drug stores, but it has preservative properties. feed values and balanced rations. 1. Could you publish a table of the feeding how to make a balanced ration.

2. Is barley meal good for milk cows? been told it will make them go dry? W. J. S. Ans.-1. The feeding values of all feedstuffs are arrived at by (a) finding the proportion of (b) finding the proportion existing in the ciry matter between the digestible flesh-formers (proproducers (carbohydrates and fat). The following table will show the dry matter in 100 pounds of the feed, and also the proportions between the flesh-formers and fat-producers, which proportion
is usually termed the nutritive ratio. Such ratios are not to be considered, however, as feeding pre-
scriptions for each and every animal, but only as indicators, a study of animal individuality tieng
 It will be seen from the above table that thr
nurritive ratios vary considerably, examples beng.
casily procured of what are termed wide and narrow ratios. The straws show a wide ratio, 1 of wrotein to 33.6 carbohydrates and fat in oat
straw, and 1 to 93 in wheat straw. On the
orther hand, clover hay, 1 to 5.8 ; peas, 1 to 3.2
quite well
To illustrate the compounding of a ration.
and how it figures out, the following amounts we
 Tibs, bran....


hens losing power of thetr legs What is good for hens losing the power legs ? NLLIAM NCKEE. Ans.-There are no good reasons given in any of the poultry literature that have ever sceen
for hens losing the power of their legs, and never had but one case in my own experience. cock at the O. P. A. Show, and in two months he had lost the power of his legs and was useless. I attributed it to the fact that he had been forced with stimulating hood sffected him. I would

dvise feeding pround bone and bran bemerf of phosphates, it may help the leg weakness. for their food, and keep them in a warm place where water have not more trouble with loc weal you should have any more trouble with leg weak
ness.
JAS. ANDERSON.

## Montreal Markets.

Montreal, Jan. 6. There were about 800 head of but chers
cattile three or four mall calver and a dozen sheep and lamb cattle, three or four mall calves and a dozen sheep and lambs
offered for sale at the East End abattoir. Slow trade, with pricen about the same as on Thursday's market. A few of the
best cattle were sold at about $4 t \mathrm{c}$. per lb., but they were not
 lambs atabout per lp. Sher lbep Fat hogs sold all the way from 5 cc . per
lb. for


## Chicago Markets

 to medium, $\$ 4$ to $\$ 6$; stockers and feeders, $\$ 2$ to $\$ 1.05$, , exas fed
steers, $\$ 3$ to $\$ 5$.
Hogs




## British Markets

## 




Chicago Live Stock Trade in 1901.

[^0]

A letter from a distant tand, A cordial grasp from friendly<br>A happy daysp frem, friendly han The and fair Though but a castle in the ar<br><br>A smile that beams as fair as true, A vice that hope and sunshine brings- How good, how true, life's common things

The School Trustees ... The Teacher Talking Them Over.'
The "Advocate" is doing good service in bringing before its readers, not only in Canada, but in all parts of Greater Britain to which it travels, specimens of the talent of rur (anadian artists. Noubly valuable are these when they in our broad Dominion Our nicture to-day is by Robert Harris, Pres. R C. A., a record of whose vell-earned fame may be found on page 775 of the Christmas number of our paper. 13y simplicity of attitude, by naturalness of expression, by faithfulness to detail, Mr. Harris brings before us so clear a presentment of any scene he may paint for us, that words of explanation seem almost a superfluity. Our picture, for instance, tells its caught the attention of the four kindly-faced, incaught the attention of the four kindly-iaced, in-
telligent men who form the board of trustees of the country school committed to her care. Young as she is, she has the good sense to plead,
not to dictate. Her arguments carry conviction
from the very earnestness with which she pre-
sents them. She speaks to them in their double sents them. She speaks to them in their double
capacity as fathers individually and collectively, capacity as fathers individually and collectively,
cach a father and head of a household, and all collectively as standing " in loco parentis "t the little family which sit in rows behind those roughly-made desks and dip their pens into those
little stone ink-bottles from day to day. Nettie Brown (we may as well give her a name) knows just what she wants, and is fearlessly asking fo it on behalf of her little pupils. She has come fresh from her own training, with her heart and head alike enlisted in the success of the good
work to which she has put her hand. She says "Education is not only that of the three $R$ 's it is not just what can be got out of the spelling book and the dictionary. We want to train the hand and the our children, and we want them to come to school, not because they must, but because they wish to do so. Your board gives us adequate supply for our actual needs. You never fet the woodpile get too low down, and when the wall clean us up, but please let us have a few pictures to hang upon them, not only to beautify them. but to teach our little ones. Let us have a feiv shelves for our miayround gardens our childre may get a taste for gardening and vegetable cul ture, which will be laying a good foundation for their future lives. They won't want to be off to the cities if we make ire in the country, 'Nettie has told them that and a good deal more, and those kindly men are not going to say her "nay, all of which goes to prove that the men in the sense of the school boards of Canada Gazzam (looking up from the newspaper)-That



THE QUIET HOUR

## - Now Ler.

He came to my desk whe an
Dear teacher, I waut a new leaf,' he said) In place of the leaf so stained and blotted


I went to the Throne with a quivering soulDear Father, hast Thou a new leaf for tue? He took the old leaf stained and bloted,

of wishing al my dear "paper friends," as Kit calls them, a very happy New Year. This is a time for look
ing back and also for looking forward. Have ing back and also for looking forward. Year's
ve kept the good resolutions of last New Year we kept the good resolutions or ast New Yoars
Day? what are our plans and hopes for the future ? There are two sides to everything, and we can good many years ago I was staying in a sanatorium. in Dansville -a building nearly filled with nervous invalids. The most important prescription given to patients in that delightiul institu vard was inward sunshine we lived out of doors s much possible: patients were forbidden to discuss their ailments and troubles. Most of us joined the "Bright side Club, pledging our selves to look on the brig....te of everythim to uplift, cheer and encourage all with whom we come in contact." Did we keep our promises ? Well, perhaps not always, but we tred to do so sometimes.
What hat in the to do with the New Year ? Simply this: To fret over the mistakes and failures of the past will only paralyze our energies.

the school trustees - the teacieb taliking them oneh

To start the year with the expectation of failure can fight with all his strength if he is sure of defeat. We may make mistakes, but it is possible to press even failures and sins into our service .he things that are behind, pressing forward to things that are before
Repentance is inspiring, encouraging us to try again, but remorse is crushin
to the awful gulf of despair.

$$
\begin{aligned}
& \text { the question, some who sent in whore soale mention. } \\
& \text { will have to be satied with honorable }
\end{aligned}
$$

| Do you remember how the three chosen disciples failed to stand by their Master, fand sympathy and cheer Him with their prayers and sympathy them with useless reproaches, or encourage them to make a fresh start, trying to do better the them, Rand Rise, let us be going, with authority and power to us, HA weak disciples to-day We would not waste time in useless regrets. We a companion we can dare to mount the steep ascent to Jerusalem. Though the cross may be in the path, it is only a difficulty mounted, not an end to the journcy. <br> From glory unto glory! Be this our jo, Bolus song, As on the King's own highway, we bravely march <br> along! From glory unto glory ! O word of stirring eleer, As dawns the solemn brightness of another glad <br> as dawns the solemn brightness of another gla New Year., <br> Why should we be discouraged? Failure is im- ssible to those who are working for and with God. They may seem to fail, but what the world calls failure God may call victory-and He is the Judge. No matter how small the labor of love be only the giving of a cup of cold water. We have every reason, then, to abound in the work vain. Let us take the new leaf from our hand thankfully, hopefully, and, prayerfully, putting all our energy into the effor to make a fair copy of our Lord's beautitul life. The great thing is to aim right. If our great object is the attainment of worldy riches or honors, it is not surprising if we don't make much progress in holiness. A man may but if he devotes time, money and talents principally to the attainment of worldly advantages, it proves. more valuable, no suatter what he may say. ?. The amount of harvest is proportioned to the ced sown. The harvest is a natural cme. The natural result of intemperance is money and an unsatisfied cruinerliness The natural reward of holiness is holi craving for more holiness. One <br> holiness wrin min would te trith riches were offered holiness instead. Sork and ye shall find what ye scek." $\qquad$ fint steadily improving day after da |
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## THE CHILDREN'S CORNER

Picture Competition.
I must congratulate you, children dear, for
this is the best competition we ever had. About
I must congratulate you, children dear, for
this is the best competition we ever had. Ahout
70 boys and girls sent in descriptions of the I ic-
ture given in the Advocate of November Jth.
Many of them were splendid. I only wish we
$\qquad$
$\qquad$

$$
\begin{aligned}
& \text { As the competitors were so numerous, they have } \\
& \text { been divided into four classes, according to age } \\
& \text { Class I., } 14 \text { and } 15 \text {; Class } 11 ., 12 \text { and } 13 \text {; Class }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Class I., 14 and } 15 \text {; Class } 11,12 \text { and } 13 \text {; Class } \\
& \text { III,. } 10 \text { and } 11 ; \text { Class IV., } 8 \text { and } 9 \text {. }
\end{aligned}
$$

$$
\text { II, } 10 \text { and } 11 \text {; Cass IV , Class I, Elsie } \Lambda \text {. }
$$

$$
\begin{aligned}
& \text { The prizewinners are } \\
& \text { Zavitz, Walnut, Ont.; Class II., Winnie Weekes, } \\
& \text { Woodgreen, Ont.; Class III., Martha D. Crowe, }
\end{aligned}
$$

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\begin{aligned}
& \text { Zavitz, Wand } \\
& \text { Woodgreen, Ont.; Class III., Martha D. Crowe, } \\
& \text { Beaver Brook, Col. Co., N. S.; Class IV., Charles }
\end{aligned}
$$

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\begin{aligned}
& \text { Beaver Brook, Col. Co., N. S.; Class IV., Charles } \\
& \text { Chapman, Donsview, Ont. (Did you write the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Chapman, } \\
& \text { story yourself, Charlie?) } \\
& \text { Those deserving honorable mention are: Class }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Those deserving honorable mention are Class } \\
& \text { I., Phoebe Thompson, Agnes Little, Florence }
\end{aligned}
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\begin{aligned}
& \text { I., Phoebe Thompson, Agnes Litte, Fer Ethe Ethel } \\
& \text { Adams, Arden Lett, Frankie Fleming, Ethe }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Adams, Arden Lett, Frankie Fleming, Eithel } \\
& \text { Smith, Annie Shaw, Class II, Elma Hand, }
\end{aligned}
$$

Smith, Annie Abbie Alderson, Maggie Webster,

$$
\begin{aligned}
& \text { Mary Plate Kerry, Gladys Alway, Lillian Nixon, Annie } \\
& \text { Campbel. M. Amos, Sophia Cameron, Nettie }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Campbell, M. Amos, Sophia Cameron, Nettie } \\
& \text { Morton, Jessie Smith, Rebie Stevenson, Arthur }
\end{aligned}
$$

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\begin{aligned}
& \text { Morton, Jessie Smith, Rebie Stevenson, Arthur } \\
& \text { McKay; Class III., Hazel Wheler, Annie Bell, }
\end{aligned}
$$

Eva Gallagher, Ella Mitchell, Emma Pennington,
Roy Smith, Bessie Roberts, Louis Frankfurth,

$$
\begin{aligned}
& \text { Elsie Clark, Myrtle Roberts, Emory Sibbald } \\
& \text { Class IV., Effa Robertson, Florence Fortner, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Class IV.. Effa Robertson, Florence Fortner, Fer Fran } \\
& \text { Russell Richardson, Norman Roberts, Francis }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Russell Richardson, Norman Roberts, Francis } \\
& \text { McDade, Josie McArthur, Cecil Ylager. }
\end{aligned}
$$

Mclade, of the other letters were fairly good,

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\begin{aligned}
& \text { too of course, in judging them, the age of the } \\
& \text { writer, as well as spelling and handwriting, hat }
\end{aligned}
$$

$$
\begin{aligned}
& \text { writer, as well as spelling and handwriting, hatd } \\
& \text { to be considered. Through somelody's careless- }
\end{aligned}
$$

ness, a holiday letter from Amnic Lamont. posted


Weary Traveller
she made known her wants to her nurse, that 1 .
immediately replied. Pernaps your papa would
to willing for you to take such immedrately replied : Pershaps your papa would
be willing for you to take such a ragged boy into dining-room., you oh! I do noth a ragged boy into
decause he would know I was doing a deed of mi ectuse hhus spoke the kind little maiden.
itv.i. The
ingly, the boy was taken ainong the cushions. ingly, the boy was taken among the cushions. asked him his name. His name happened to be asked as hers. She did not think much of that,
fame mother did. She admitted " that lots of lie
her have the same names," Then the hitto boy Was su
inoned and questioned about his parents. At last
 new attire) sat nestled in his mother's lap, was een lert some money by an unknown relative, an
His drean was now disturbed by the rumbling
wagon in the distance. He opened his eyes, wi hard, rubbed his eves; and wondering wnecher he th
really in his mother's arms and draning or on th
road. He at last came to the conclusion that he wi. really in at at math came to the conclusion that he wat
road. He at las
in the later. In his excitenent he forgot he ever haid in the latter. In his excitenen
a monkey, and got up with such a start that knocked
and


The other pl

## A. New Year Message

When the year is young, and the hea
And the eyes are laughing and thlue
Then the world blooms happier every
Thin sing good cheer to the year that's here
To the laugh in your eves of blue,
The New Year comes to his inheritance the hour of midnight. into every home-keepin heart and into every homeless heart under th watcho enters. Levery land upon this eart from the moracked icomount ins of the arctios alwave hot, mfoist valleys of the tropics, White always, above him. Shine those faithful ones, the
stars, bending over him like so many hosts of Suardian angels. midnight bells comes sweopins over the hills and echoes again in your heart Like the "horns of Felfand,", there is a willly mysterious charm in those far-away be!ls
hark, hear, how thin and clear

But these bells have the thrilling, stirring bounding peal that only New Year bells can have kindred chord. The joy of the "glad young year" is upon you.
How beautiful he is-this New Year! IHis fac is rosy and fair and open, his little palms ar sting of thorn nor the bruise of stone. Ife whispers to you of the blessings he holds for "sing good cheer to the year that's here," and given purity and holy happiness in your heart blaze up and shine ali around you; and pray, 0 sins of yours may rob that face of one jot of its hose ter feet bect But in vour welcome to the Xcw. forget mot homekeeping heart and from every homeles Ewery land uron this the Old Year goes out. Warture like the passing of King Arthur, in those faithful ones, ready to carry him hence to turies. The hells have a double meaning. Lifis hait-gateway of Time. has tameht youmany lussons. He has brought to you stoms :mm thifelings-and peace. He has bompht to your some great sompor, and a hundred

Jaxuary 6, 1902
THE FARMER'S ADVOCATE

Ingle Nook Chats.
My dear Guests

| 'Tis midnight's holy hour, and silence now The still, and pulseless world. Hark! on the winds The bell's deep tones are swelling-'tis thOf the departed year. No funeral train Is sweeping past; yet, on the stream and wood, Like a pale, spotless shroud ; the air is stirred As by a mourner's sigh, and on yon cloud That floats so still and placidly through heaven, Young Spring, bright Summer, Autumn's solemn form In mournful cadences, ihat come abroad A menche ditarper the dead tourhing wail, Gone from the earth forever." |  |  |  |  |  |  |  |  |
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Day after day has passed by, each with its
measure of joy or grief, and again we are ushered into the presence of a mysterious guest-a Nerv Year, with its three hundred and sixty-five days all pure and unsullied by the touch of time, and
each fraught with wondrous possibilitics of good or evil. What shall we do with those marvellous gifts? When the fair seasons shall in turn have passed away, and time's revolving circle once more shall find us on the threshold of another by earthly dross to form a shining gem in the chaplet of the past, or shall their lustre be so marred and dimmed by selfishness that we shall blush, to gaze upon them
If we desire the first
tainly do) we must begin now to study how best to accomplish that end. It seems a ponderous undertaking, this resolve to do and be the best of Which we are capable for a whole long year, and this is why ere secret of living one day at a time, but are forever harassing ourselves with possible contingencies, and while we make ourselves miserable with fears for the future, we forget our good reSolves, fail in the present, and thus build a past
that will one day cause us regret. Surely, for one short day, we can be what we
hould wish to be: and that is all we are required to do, for each well-spent day will bring renewed strength for the combat of the morrow " Choose not the cross for the coming week,
For this is more than He bids thee seek. - Bend not thy back for to-morrow's load,
Thou mayst leave that to thy gracious God " Daily ' only He says to thee, Serious, am I? Truly, it is a grave reflection of know that so much of the happiness or misery one of us, for " Our shadow-selves, our influence, may fall
Where we can never be."
But too much philosophizing might make us
melancholy, and here, at least, in this cosy realm, no shade of sadness may be allowed to enter. Then, while the saucy Frost King holds the out-
side world in thrall, let us gather about the glowing Ingle and make merry while we may. No magic open sesame is required to gain adawaits all comers, old and new. Now just a ferw awaits all co
words about
 Wentge and do not show very careful work. These
Contects are meant to not mercle mamsing, but in-
structive as well. but it remains with


 ters may he read vertically, horizontally, diagonally
urward or townward tack war or forward, but not
zilmar.

## A New Year's Day in Toronto.

How many old customs are dying out alto gether or have been replaced by new ones, tha of the at-one-time-thought indispensable compli-
mentary visit at New Year's for instance," said mentary visit at New Year's, for instance," said
our great-Aunt Merriby as we gathered round her for one of her "long-ago chats," as we called them. "Why, when I first came to Canada and made my home in Toronto, a shy bit of a bride not long out of school, I was aghast at what I
was told would assuredly happen on the coming New Year's Day. 'You must just sit up in Nev ,
state,' they said, ' put on your very nicest dress, smile your sweetest, look your bonniest, and dis pense your hospitality with as much self-posses
sion as you can possibly muster for the occasion Sion as you can possibly muster for the occasion.
You may have a girl friend or two to keep you company and help you to receive your guests but it would be inadmissible for fom to be with you, for he is a man, and whilst all the men of husband must be going to the houses of youl joint lady friends and be calling upon them.
": Why, auntie, that must have been fun! " Why, auntie, that must have been fun! Fun
for you and fun for Uncle Tom, too !." said Cousin Millie. "We should have enjoyed it times nowadays." "A matter about which there might now be two opinions, my dear, said Aunt Merriby. "Then I had but one, and that was been thought of, for what in the world should find to say to all those men, without Tom to help me? 'But, cheer up, little woman,' he had said, you have your old friend Katterina get what Polly in her cage calls .. Terry-don't teaze-me" -that is, our merry Teresa-to help you out. It will go hard with you if such a trio a that cannot manage to come off with flying polors. daintiest little rolls of bread and butter were placed on a table in the corner, with grave Ratterina as its mistress of the ceremonies, $m$. self as hostess-in-general, whilst 'Terry-Teresa seemed to be the aspiration of every unit amongs those visiting crowds which from $10 \mathrm{a} . \mathrm{m}$. until $6 \mathrm{p} . \mathrm{m}$. poured in and out of the drawing-rooms (large and small) of the Toronto ladies of that
day to have at night each a bigger record that day to have at night each a bigger record than
the other of calls paid within the given hours Sleigh after sleigh would dash up to the door: stamping of feet to shake off the snow ; a ring ing of the house bell, to which an open voices, a jingle of china and glass: A Happ to you-and 'isn't this a glorious day. Mrs. Mer riby? Dollit you think, now, that Canada it the jolliest country in the world? - etc., ete
Some of Tom's more especial chums who knew the ways of the house would say, insinuatingly Y You don't mind, do you, Mrs. Tom we sent ou sleigh round to the office door-may we slif end of a help, etc.' It seemed to tock, and he mo the often-quoted brook, that stream of visitors hour there was supposed to be a hiatus. fout will get no sit-down meal till half-past seven, ainl therefore you must make up with sandwiches and that was how we mamaged. There was one rathel suspicious little exception to the keneral rule
and that was that no less than three times Capt Tregarthen of the Artillery put in an appearance sheepishly, as he fished up his big fur gauntle from behind the coal scuttle, wher
have hidden itself without hands must have dropped it here and came iack th sea etc., etc. Well, having again got possecsion of
his property, why didn't the man go? Iaut of my putting that very natural question to that
teasing Terry-Teresa, she only wouchsafel me little toss of the head, as one who should say
H Iow should I know? whereas, who hould
how roke that mit into its hiding place, with :1 ver
shrewd guess as to the meaning of the mit


then, and had come again to fetch it, which, as
it turned out, was just what he had done t turned out, was drawn what he had done Another chair was drawn up, but somehow the
flow of talk ran more slowly outside the cage but from within, in Polly's gentlest accents (fo she had been trained to talk in moderately human tones), came utterances so persuasive that garthen. - Hearts are trumps. Yes, hearts are trumps,' said Polly. 'Terry-don't-teaze-me Terry-don't-teaze-me,' reiterated Polly. Upon these remarks, which might have no special ap plication, Polly rang the changes, but finally, in sure how the suggestion might be received, she half whispered, 'Kiss Terry, kiss Terry-Teres: "I will draw a veil give you the climax. Capt. Tregarthen did kiss
Terry-Teresa, not only then, up in a conner where he thought no one sare them, but ever so many thates since, for he married Teresa, and Polly. that blessed bird, as they both cabled her ever 'T's' and the 'R's' and 'the Gartha's with which she endeavored to explain her part in bringing it all about. On the whole, that first nens. A ,

## A Skating Song.

Hurrah for the wind that is keen and chillit
A it skirs the meadow and sweeps the hill
Hurrah ior the tulso Hurrah ior the mulses of swift dellight
Hhat tingle and heat in the winters nig
The When ove tho crystal lake we glide,
Hurrah for the lad with the sparkling eye
For the joyous laugh and the courage high For the joyous laugh and the courage high:
Hurrah for the health that is glad and stron
So that life is gay as and So that life is gay as a merry song, Hurrah for the landscape broad and fair
Spread boodly out in the brilliant air.
Hurrah for the folds of the sheeted snow On the mountains high, in the valleys low
Hurrah for the track where the skaters glite Hurral for the girls who skate so well-
Worothy, Winiired. Knte und Noll! Hurrah for the race we re bound io win
And the curves and figures we mean to
Altrrah for the joy that wings our fret.
When
 For son that covers the next yeur's sheaves
Tournh for the glenming glassy lake
Wher the skaters bold their , ,lensure tate :

## In Round Figures.

Not long ago a lady was giving if lacture rer subject wats the human flgure, and the te-
fuirements, in the way of proportion, for teauty the herself was of generous-one may say un-
wieldy-size, and her manner was supercilious aud ofty. She was trying to demonstrate the " For con the limbse." sas they really ought the "he
twice round mive humb, "-she held it up-' once round my wrist: Homd my theck, once romid my waist." from the
Hansed, and a shill voice from the
 ark." lecturer hastily passed on to atmother

Scotch Proverbs.

Birth's pood, but hreeding's better.
Take i pint and gree the law's costly. Take a pint and 'reve, the law's costly.
He is worth no wrel that can bide no wore
Phe the same thing that you would he called. Pe the same thing that you would be called.
bivery man at forty is a fool or a physician.

$\qquad$

## A Gentle Hint.

Polish yourself up, madam ; you had a pretty wit once, a pleasant laugh, a conversation that was not confined exclusively to the shortcomings dear madam, we do not live on spotless linen and crumbless carpets. Hunt out that bundle of old letters you keep tied up in faded ribbon at the back of your bureau drawer-a pity you dont
read them oftener ! He did not enthuse about read them oftener! He dirs, gush over the neatness of your darning. It was your tangled hair he raved about, your sunny smile-we have not seen it for some years, madam-the fault of the cook and ose butcher, I presume ; your shape, madam, of late Try a little less scolding of Mary Ann, and prac tice a laugh once a day; you might get back the dainty curves. It would be worth trying. I

## Things to Know

Should the chimney take fire, close the doors and windows, so there will be as little draft place the bottom of the pipe in it, and the fire will soon die out. Another method is to throw salt or sulphur on the fire, which will check it.

TO LOOSEN A GLASS STOPPER.-Soak a corner of a glass cloth in boiling water, and the wrap it round the neck of the bottie. the keat will cause the neas easily be removed.
TO CleAN BLACK CASHMERF -Wash the material in warm suds in which a little borax has been dissolved. Rinse in very deep brue water, and iron while still damp. If carefully , the materlal should look lok
BROWN BETTY.-Grease a pudding dish, and place in the bottom a layer of bread crumbs Then nearly fill the dish with alternate layers strewing brown sugar, cinnamon and a little butter over each layer, topping off with crumbs Bake one hour, and serve with hard sauce. CREAM CANIDY.-One pound white sugar, Olle wineglass vinegar, one tumbler water, one hat teaspoonful cream tartar, vanilla; boil one hal
hour, and pull, if you choose.

## A Memory.

A swect (By Mrs. J. He hangs on Memory's wal Of a far-off Aprit day on the large doarstep
When a wee sirl stood on As her shoes were thin and the ground was damp
Mamma had told her to stay
Right mhere on the doorste, nor venture chwn
On the cool, damp ground to play.
Her father came home from the privic And his heart welled up to see
His litile one there in tine sumlight iail,
Playing in infocent glee.
Extending his arms, he Qobingiy' ant
Come hire, little girlic, conte,
She start th a monent nas ii to go
The little feet longed to run.


She stom but an" indan ns if in thumbl|

Home.

## Charlotte Bronte

 Little Rhymed Story.The wind was blowing over the moors,
And the sun shone bright upon heather and whin On the the sun showe bright upon heathe
Which hoary and gray wi
Which stand about Hazworth vicarage, Which stand about Hazworth vicarag
And
st streamed through a window
There, by herself, in a loncly roon-
A lonely room which once held threeSat a woman at work with a busy

Fame cannot dazzle or flattery charm
one who gors lonely day by day
One who goas lonely day by day
On the lonely moors, where the plovers
Ond On the lonely moors, where the prover
And the sobbing wind as it hurries by
Has no comforting word to say.
So, famous and lonely and sad she sat,
And steadily wrote the miorning through
And steadily wrote the morning through
Then, at strove of twelve, laid her task aside Then, at stroke of twelve, Iald her
And out to the kitchen swirtly hied
Now what was she going to do?
Why, Tabby, the servant, was " past her work
And her eyes liad failed as hyr strength ran low And her eyes hace easy, had one by on
Aecome tools, hard, or were left hall-done
lecy the aged hands and slow.

So, every day, without saying a word,
Her funcous mistress laid down the pe Her funous mistress laid down the pe
Re-kneaded the br'zad, or siliently stole
The potatoes away in their wooden bow

She did not say, as she might have done These things are tittle, while I I gme great
The stand And thy world will not always st
For the words that I have to say
No; the clever fingers that wrought so well.
And the eves that would pierce to the heart's intent She lent to the humble task and smal
Nor counted the time as lost at all

So Tabby were but content
Ah, Genius burns like a blazing star,
And Fame has a honeyed uro to fill,
But the good deed done for love, not fame
But the good deed done for love, not falle
Like the water-cup in the Master,
wame,

## Worn Out

She was not strong, he knew it
so ot said Farmor Gray
sho always was a fragile filower,
E'en on her werding-day.
Fien on her wedied her mothe
Fight children caller years had rolled along,
For yel
For years had rolled along,
She made their cothes and kept, the house
Yet another ". was not strong."
Poor father, she would sometimes say



She milked and churned, she

Sol
She d h, whin thin drop the corn
or in the garden hoe nwhile-
Then to the smoky kit chron hot
All "rited out she ty pomb

fie couldth do what others a
she otton wombered as she son

## Jes' 'Fore Christmas.


 Withort them ang ashes, currs an things that's worn wy
Funterov ! Love tome chuwnvik green apples an go swimmin' in the
 but flits on mofer chistmas I m as good as I kin bo


 He reachess at me with his wilip, and larrups up his In' then It laff and holler
But jes 'tore christmas I'm ns good ns I kin be :

 Or reand thi life or Daniel Boone, or else I guess shed
 Theen ol' Sport he hangs around, so sollum tike an' His expes they seem a.sayin : "What's or matter
 Or thame tho enemes wity


 Wuz made they sad, fr proper krds, nut not in
 $n^{n}$ don't bust out yer pantalons, an' doh't wear
 put, $\begin{gathered}\text { arain } \\ \text { thinkin' }\end{gathered}$ 4. that treis Coristmas be as good as you kin be :

## The' Power of Kindness.

## oriver who was trying to make a horse draw a

 wagon full of stram. The horse, a fine beast, with plenty of mettle and when him by moving the wheels while ot hers pushed behind. The driver pulled the horse's head, first to oneside and then to the other, but exert himself he side and then to the other, but exert himself he
would not. would not.
The whip was used and plenty of advice given. still the horse remained stupid. A little lad standing by called out, "Show him some kindness, mister !"'
Some of the crowd laughed, but the driver put (u) his whip and began to pat his horse : and up his whip and began to pat his horse, and
after a little time the animal became anxious and stubhormess was conquered, and he started off with the wagon and straw, while the hoy wakked away, remarking. "All he wanted was some kind-

Whatre annl romturnad it to ther. -"Thank you, my little mam," satil the ladly.


$\qquad$
$\qquad$

## For Tommy

## (By Laura E. Richarde

It was New Year's Eve, but the tramp dit

 without ceremony ; at others work had ben of irved.
Only one woman had taken him in and fed him for Only one woman had taken him in and fed him for
nothing and she had Eiven him solat bread which all
ways disagreed with hive, and cold tea. The profesway was not what it had been cracked up to be thought the tramp, and he began to think that the
burglar had the best of it, aiter all. He had always colled himself hen honest man, and hat on ow and and then
oplit wood. when he could not get food without. but. ylit wood, when he could not get food without, but,
fler all. was honsty the best policy ? He knew furglars who had their little homes, as neat and pretty as any one would ask to see. This very arter-
noon he had been walking with a burglar who was and here was he, the tramp, an honest man, and not ande to get a bite of supper. Decidedly, tramping was not what he had been led to believe it. He thought
he should tiy stealing, aiter all; he stopped, full of thought, and looked around him
A bright light shone from the window of a cottage
hard by: the blind was up ; the: tramp stepleed to the window and looked in. A neat, bright, cosy kitchen
$a$ little old woinan busy over the stove. No sign o masculine presence anywhere.
He opened the door, without knocking, and wen
 "I want some money!" said the tramp, hoarsely. . Well, I haven't got a cent, ", said the little
woman, "and if I had, $I$ wouldn't be iool enough to give it to you so there she and ided brightly come just in the nick of time. I want this soum take to a sick boy round in the next street. His mother is sick, too, and can't cookk things, pice nis he ought to and 1 set out that he should have something geod and
hot to go to sleep on, nourshiment inside him."." talking the little woman was
All the time slie was insy, getting out a bowl and cover and inning a cteal
mapkin. "Here!" she said, and she poured some of the
steaming broth into a smaull cup. . See if that ain't
 and. said it was good. " Go round the correr to the saurth white house, and
say it's for Tommy. What ye waitin' for ?". tramp. 1 . idn't come here to do errands, said the That's, just what you come for. I've been waitinn the past half hour for the Lord to send some one-1
can't go out at nitht myseli, for fear of the asthmy's about ! " pushed the tramp out, gently but' decidedly.
She and shut the door on hirm. the tramp. He carricd the bowl the tramp. to the fourth white
house from the corner. Once, indeed, he stopped on the "Way and muttered to himselif ece, he stopped on injury. "You'd think they might have called himl
William. or something else. There's names enought you'd think, without nittin, on Tommy, But that the way A A man don't have no chance !" and when he knocked the door was opened by a shor
square man with ". doctor", written all over him.

What !, said the tramp, of for Tommy
Soup ! " said the tramp, "for "Tommy !"
Who sent you, asked the doctor. © Old woman,
 Jump into my buggy and drive to 140 Gage street I
Give this note to my wife-Mrs. Jones-and bring back the medicine she will give you. Hurry, now hour for somebody to coune aloog. did not know where Care Street was, but a ferv iue tions put him on the right track, and anter a drive of
some minutes. he drew up before a neat white villa

 mercy ' Who is this?
The tramp gave her the note, which she ren
mon "Yes," she said, "o oh, certainly : ${ }^{1}$ will get thenk
ut once. And while you are waitin! "-she Looked ut the tramp doubtruly, "T The doctor sent you -it must
 Iton't know where he can be and I anm sure then $h$,
Gonething wrong. The house is cold as a barm, anm
 thedicine ${ }^{\text {The }}$ tramp stumped down the cellar stains shom
the furnace thoroughly, put coal on and shu, it up.

## leyond any expression I know. They don't give a The Boy Kept Step.

The other day while waiting at a desolate to have declared itself against schedule time and human patience, my attention was attracted by a man and a small hoy who sat on a bench near oppressive weariness, and the exhausted manner oppressive weariness, and the exhausted manner house showed that he had been subjected to some great strain. The boy was given to excessive
liveliness. He found a large barrel hoop, and in liveliness. He found a large barrel hoop, and in
turning it around for closer inspection, struck the man on the nose. Then, securing an old oyster can, he filled it with water from a neighboring puddle and poured it on a carpet-ba wiping his hands on his clothes, he approsched wiping his hands on his coeply and said:

Run along now
Because I don't want you here. No, I don' added, when the boy had climbed up on the bench

I want to love you."
' Why?
Because I dont want you to, that's why dirt?
Yes."
Why will they
Because they will
" Oh, get down and hush. You are sometimes
the most foolish child I ever say
when he had climbed down, not, however, without wiping his muddy feet on the man's pantaloons

What is an Anarchist
A man whe tries to
The law of the land
What land ?
This land
ground.

> What is law?

It's a-a-rule of civil-that is-look her
are you going to hush and let mo alone ?,
After a short silence. " What is law for?
After a short silence. What themselves.
Can I see the law if I go out there and look No."
"Then how is it the law of the land I don't knów Hush land?". " don't raid that want to box your ears, but I'm Box my ears because I talk?
Yes." would you box my tongue because 1 The man sprang to his feet and began to walk p and down the platio with him. After a while the man, glancing at his watch, muttered that the iuperintendent of the road ought to be hanged.

Is he an Anarchist? " the boy aske
Then why ought he to be hanged?"
Because he has no regard for the public.
What's the public?
What's the public?
The people."
Am 1 the public
The man wheeled around and walked away The boy kept step with him. The man resumed This sat on the bench. The boy found an old shoe, Matform protending that he was lame. Then, de claving that he was a horse, he began to gallop. The old shoe flew off and struck the man on the hend, wist as he had taken off his hat to run a

I didn't $\mathrm{m}_{0}$ to do it." the boy exclaimed. Come here, sir, and sit down. Come here this instant. Sit down here, now, and don't le hear another word out of you. This is the vous you shall ever go anywhere with me coll answer the, sir ? " "Roctanse you said you didn't want to hear The man sprans to his feet and began a nerv ous march up and dow" the phatform, The boy
,
 left my money at home and I haven't it cont on
" I'm awfully surry, old chap, but I haven't
the doctor's wife was waiting for him with a packet
and a cup of hot coffiee.

ost office ?"

he'll iret if he don't hear from me New Year's Day
able about you this cold night." He said nothing, but
As he drove by a street lamp a rough voice called him to stop. He checked the horse, and was
ware of the burglar with whom he had walked wand
 stay an honest man, was you? And got a ter The tramp grunted and shook his head
". I'm on sick sranny !" said the burglar. " You go
shares, or I'Ml holler and give you up !." He grasped the horse
oks were ugly enough.
He right!" said the tramp. "Jump in." The burglar leit the horse's head and was in the act of sent him sprawling on his back in the road. no sense of what's right and fittin'," he muttered
'There's a time for everything. That's Scripture." White found the doctor waiting the the door of the getting uneasy, my man." sald the tramp. He explained that the hired man was gone, and the lady had askerl "Gone, has he?", said the doctor, and his face
darkened. "Then that's the last time. He needn' come back, the tipsy rascal! " "t the tramp, who was
Again he looked ksenly at
shiting a buckle of the harness in a very knowink

Know anything about horses?" he asked. Reckon!" said the tramp.
Who are you, anyhow? "asked the doctor. "Well, I was wonderin'!" said the tramp. "'
took care o' horses five years. I been sick, and since out to be a burglar, but I ain't had no chance. I " "I think you might!" said the doctor. " Come his inother's not much better." ". Well, it's all in the night's work," said the with this."
He stepped inside, but stopped short at the bedheard within, asking for water. doctor. "Whose voice is that ? " Tommy's," said the doctor. "Tommy Trent."
". "O my Lord!" said the re here? ". How or, "' to get work in the mill. Good, steady woman! She was doing well till she fell sick, and then Tommy
took this fever. Nice boy. Tommy ! Do you know anything about them? They seem to be quite alone.
There was an older son, I believe, but he scems to
$\qquad$ against the wall for a moment; then he turned upon
the doctor with flaming aves aiter me to-night! he said fiercely. .' Things is all of a pord if you're a mind to. I shan't say nothin' 1 aside with one hand, and slipped noiselessly into the things?" The sick boy started up on his clbow with a cry. ing. 'It's all right! ! he said. AMother, it's
right Ill get well now Brother Jim's come !

## Friend in veed

hough, so that you can get it almost immeri
tely."

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Prizewiners，either male or female，tor sale． john wallace，Cartwright，man Thorndale Shorthorns， 25 BULLS，and about
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Shorthorns，Shropshires，Yorkshires， Butf Plymouth Rocks．
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JOHN S，ROBSON，Manitou，Man
SHORTHORNS
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 he will sell at auction, at his farm there, 27 miles
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Short Shorthorns, is one of more than ordinary inter-
est to breeders and farmers generally throughest to breeders and farmers generally through
out he Dominion, and will doubtlest attract
not a few from bevond the confines of our own not a few from beyond the confines of our ow
coutry Mr. Miler's widely extended experi
cnce ripe iudgment and acknowledged skill as country. Mr. Miners acknowledged skill as
ence, ripe judgment and and is a yood guarantee
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that the stock comprised in this offering will be
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till not put anything in it that is not perfectly will not put any ting in it that is not perfectily
rifht in regard to hreeding, health and condi
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The herd of registered Galloway cattle oowned
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America of this hardy, thrifty beef breed, in breeding, type and quality, representatives of
the herd having won a large share of the bes prizes at leading Canadian show in recen
years. The engraving on another page of thi years. The engraving on another page of thi
issue, of a bull and two heifers from this herd
will will give an idea of the stamp of the cattle,
though the photograph fails to ot them justice,
The bull now at the head of the herd is is import.
 ed Viceroy, of Castlemilk (7062) 19064, a mode
of the breed, low down smoothly torned, and
full of dhander of the breed, fow down, smoothly turned, and
full of charcter , red by Sir Robert Jardine
Bart: Castfemilk, Locherbie.Scotland He wa sired by Lodestar of Castlemilk, dam LLady
Vaudeville of Castlemilk He won the first prize and sweepstakes as hest bull any age al pthe Western Fair at London in 1901, where the
thigh Park herd also won the first prize in ad
Hel dition to a large proportion of the other firs prize in the class. The handsome 2 -year-old
heifer in the engraving, Flora McERin 2nd, by MCCartney out of Flora Mcrin, won frat at
London, second at Toronto and first at the On tario Provincial Winter Fair at Guelbh in 1901
And the yearlin heifer Belle 8 , and, by College And the yearling heifer, Belle B. . 2nd, by Colleege
Gambler (a Toronto wweestaker), out of Belle
B, of High Park won second at. B. of High Park, won recond at Toronto and
first at (uelph. These are but sample numbers first at Guelph. These are but sample numbers
of the High Park herd, which for bree type
and quality of flesh and hair measure well up and quality of flesh and
to the highiest standard.

SHORTHORN HERDBOOK.-Vol. 17 of the
I ominion Shorthorn Herdbook has been remined through the courtesy of the editor
and secretary of the Association, Mr. H. Wade. Toronto. It is in two parter, containing the
pedigrees of 1,065 bulls and 5,361 cows, or a total pedigrees of 4,065 bulls and 5.361 cows, or a tota
of $9,1 / 16$, an in incease of

 and owners intex for bot partse Part II
ontains the pedigrees of cows, the transfer and the list of menbers, numbering about 1.400 .
It is a very is a very creditable production and will be

Annual Meeting of Dominion Draft Horse Breeders
 Dee. 1oth, For the first thane in the
history of the society, the president's chair was vacant, and the kindly greet-
ing and wise couscl of the vetern
president, whe lato Mr. John Mc Millan,






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Oifer for sale 20 young bulls, and cows and
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 nedful," still cencers all histy onergies on
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greatere pleasure than looking after his
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resentatives of the photo-engraving on another pange, con-
sists of about 116 head, of which 60 rostly lambs of both the balance bexes. This yuarg
inportation consisted so 20 ewes and
ind ams. 15 of the ewes being bred by Mr.
Thilo L. Mills. Ruddington, Notting-
ham, and 5 from the noted flock of Mr.
 cheon 10333 , by Court Favor, and
going back on his dames side to Ply-
nouth Champion who at the Roval Show wo wh the first prize
sold for 150 guineus. After auth and
ardiasin this ram, Mr. Carenter was offrered an
inducement lo leave him where he was
which. conside Which, considering his grand individu-
ality and Royal breeding, is not to be
wondered at



 West Midland as a lamb, and second at
Bath and West of lingland, and second
in a pen of five rams as a shorl in a pen of ive rams as a, shearling at
West Midland show. These Mansell-red
ewes are closely related to the great
er
 Who sold for 240 guineas. The other
ram of this year importation is
lamb hred hy Mr. Fidwart Nock, is and




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BAWDEN \& MCDONEL
EXETER, ONTARIO,
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Shorthorn Cattle, Clydesdale Horses, eicester and 0xford Sheep, and

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We offer our whole flock of Leicesters for saleWe offer our whole flock of Leicesters for sale-
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SHORTHORNS

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One bull, 1 year old ; two bulls, 7 months old ${ }^{2}{ }^{2}$,
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We have, therefore, this day instructed counsel to at once ahe such legal steps as may be justified and proper in the ind hances against both the ternont Farm Machine ising publication to these false and libelous statements.
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elister and counte
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the sympathetic and peumogastric, an when the stomach fails to properly di-
gest the food, and it lies in the stom-

distend the organ, causing pressure on
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 preventing acidit, $\begin{aligned} & \text { gases and the many } \\ & \text { diseased condition } \\ & \text { weak stomach acompany }\end{aligned}$ Whath.


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    all the work required for dairy, irmit and do-
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    circulation can be adjusted to meet anl condi-
    tions When these dampers are closed the wo

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