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## Cement Concrete Structcres

Roval losis discussed in Parlidament
Roval Judge (illustration)
Farmers' institutes
Dates of Fairs
hinnipeg industrial Exhibition
Hard Series (illustration)
Artful Belle 21st (illustration)
The "Farmer's Advocate" at the Toronto Industrial. The Brandon Fair
Brampton Monarch (illustration
Cotlege bravura (illustration)
Hackney Stallion, Grand Cadet 4797 (illustration)
Can rome Grass be Sown with Wheat?
Herefords at Homi
Aberdeen-Angus Blll, Prince Ito 12869 (illustration)
A Grotp of Thorot
Our Scottish Letter
lady Ellen and the Gem Prince (illustration)
Ampshre Cows (hlecstration)
austrabian Frozen Meat Trade
Milk Fever Case Wrongly Treated Cow Killed by Drexchin
Artificial impregnation.
Spotless of Ingleside and Is,
Larger Clydesdales Wanted
Larger Clydesdales Wanted .. .. .. .. ..
raising foal on Cow's Milk-Cure for Sprain
A New datry Stock barn in Cocrse of ebection (i.
Cleanliness in Darrying .. .. .. .. .. .. ..
To Secure better Mile from Careless Patrons.
Good Butter
good butter .. .. .. .. .. .. .. .. .. .. .. ... ..
The Professors hunting Grasshoppers (iliustration)
Brooner House (illustrated).
Pcre Cultcre starters


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\begin{aligned}
& \text { a peccliar case ; probably riecmatism ; pigs with skin } \\
& \text { getption }
\end{aligned}
$$


ers about bee frames; fitting a bull for hhow; clliti-
vation and prewing of raspberies ; leaking water
 Chatty Stock Letter from Chicago
Montreal. Markets
Mritisim Markets.
home magazine.
Family Circle
The Chiddren's Corner
The Quet Hour
THF QUIET HOUR Ton's DEPartMENT
PCZIIES
gossip.
notices
andertisement
PUBLISHED TWICE A MONTH, AT LONDON AND WINNIPEG, CAN,

Vol. XXXIV. LONDON, ONTARIO.
AUGUST 5, 1899.
Jerry Paisley, Pincher Creek, writes:
.. One of my horses was so badly cut
CONTENTS OF THIS NUMBER. No. 1 hard

## Mr. John Dearness

WINNIPEG, MANITOBA. 33

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.407




FLEMING'S SHL , DIP


The sales of dinis Dip are

 MessRBE Ho Hi. Brandon
field, $y$ HoN,Hay
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rate ALEANURA or MELOTEE is Nutrewoon, ASSA., JCxe 19Th, 1899.

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Vol. XXXIV. LONDON, ONT., AND WINNIPEG, MAN., AUGL'ST 5, 1899. No. 483

No. 1 Hard.
In 1882 I could not find any wheat for seed that
leased me, and I prevailed on my friend neighbor, ,ir. Hartney to import a carloan of the
best Red Fyfe that Minnesota could prodnce. It was bought through the Department of Agriculpeg. The quatity was very fine, and the only weed
seed in it was a little purple cockle (Ont of tit received enough for my wants. In 1884 I had the very large and even, and so clear that it looked was if it was almost transparent. Mr. Hartney ex hibited that year at the first Provincial exhibition,
which was held at Portive Which was held at Portage la Prairie, and captured
all the first prizes for Red Fyfe amounting to slō The following year I exhibited at the Provincial at St. Boniface, and I got all the tirst prizes. One of
the indrec, Cut the judges, Oapt. Wim. Clarke, the Government Graul nspector, said it was a case of "the pup
beating the father." The following year I again exhibited at st. Boniface. and my wheat weighed
more than 67 pounds to the bushel. The Inspector stated it was sthe haviest wheat he had weighed in
the Province up till that time The next heaviest wheat at the show weighed $6 . \frac{1}{2}$ pounds. I did not exhibit again at the Provincial till last year, when I again won all the first prizes for Red Fyfe. In the ceived a fair share of the honors that were poing Mr. Hartney and I have medals, cups and diplomas
Hroum the Colonial from the Colonial Exhibition in London, and from
points on the continent of Europe, such as Antpoints on the continent of Europe, such as Ant-
werp, where our wheat was exhibited in competiawards. At the present time the Hartney wheat is being used by the Government and the C. P. R. for
emigration advertising purposes. Many prizes for enigration advertising purposes. Many prizes for
Red Fyte at the Provincial have come to Souris, Red Fyie at the Provincial, have come to Souris,
IDeloraine, Melitat, and Virden, and I think the
whent ent wheat exhibited was, almost without exception,
from the produce of the original carload above re. from the produce of the original carload above re.
ferred to. For the first two years our wheat was all sold for seed, and was distributed wheat was nouris alley from Plum Creek to the Oxdon. with
Had we been as fortunate in this district with our oats, I venture to say noxious weeds would
have been alluost unknown in this locality fortunately, before we grew any oats our supplics were partily drawn from the Calley of the Red River, and a wolf was introduced unawares. But is almost within sight. About eight years ago a from Regina, and I wish it had gone to the bottom of the sea. 1 am Weed Inspector. Notwithstandthe purest, and the Municipality of Cameron is the cleanest, in the Province. My soil is a dark loam, neither clayey, nor sandy, and is a fair sample of
the district. 1 have never changed my seed. No Other wheat for seed has ever come unto my farin.
i have never at any time had any smut in it. Since bluestone was introduced I have used it. I , know
the value of it. I run no risks. Almost every year Thave a few acres of backsetting and I aimn at tak-
ing my seed from this land. Here at in the paits of the Province, we have sulfered from frost, hail, drouth and blight. In these vears I made a
point to lay aside a dew bushels of iny best wheat point to lay a aside a rew bushels of my best wheat
tor seed. isulualy, have a litte wheat cleaned up for the show: this I keep for seed; one bushel of it
to the nere. carefully put in on lacksetting of summer-fallow. prodices a heay crop I amp an
liever in selection. My wheat is pedigreed, and is purer and as rigorons to-day at it was sixteen
vears ago. Wheat can be bred pure and graded un as well as shorthorn cattle. For a hean and clean
crop I like wheit after peas, especially if the peats Cave been plowed under. For srain of fine quatity,
smooth-skinned, clear and plump. I like wheat intin timothy. I have taken wood care not to spoil the much cropping. This season the rainfall has been
ample, the crop is very promising, and the soil seemb ample, the crop is very promising, and the soil seems
as fertile eis when the land waisnew. Sot withistanding the difference in the freight rates, it is a common our fremt, Mr blder, say its state not theorie. trumpeter, and bown my won horn, anid the.
tpoloys 1 , offer for doing so
 lartner sir that thonowest. Wo whe

Mr. John Dearness.
We take pleasure in alorning this page with as
lifelike engraving of Mr. John Dearnesis years past Inspector of Public schools for trait will in the Province of Ontario. The porwhere as all apreciated faniliar with the admirable contributions from his pen - Hpon agricultural
education and other suljecte which have from time to time appeared in the Farabrs Anvocite. He has just been appointed Vice-Principal of the new
Provincial Xormal School for the training of teachers, at London, Ont., which will be opened af ancerming of the coming year:
1852, of Scotch parentage, his parents being Joh and Jane (Linklater) Dearness. His earlier years
were spent upon farms in Perth and llidy Counties, but having begun the acpuisition of an education with marked successs. he entered upon the teaching profession in 1880 , first in a rural Lucan and strathroy public schools, and still later
on the staff of the Strathroy High School. In the

fall of 1874 he was appointed Public School Inspect or for Wast Middlesex, a position in which he has
rendered lasting service to the cause of public School education, his, general administration being also umtormy marked ly discernment and good
judgment enthusiasmm and industry. His addresses
befwn berore leachers institutes and associations, and the the Onturio Tececher, at the time the only educahis reputation. He wats one of the editers of the
 Department of Education, for the examination of
 Botany and Zooloy in the modical department of
the Western t niversity, and twice Prosidment of the Ontario Entomological socicty In fact, fon practical study of natural scionce particularly probabiy the larest conlect ion of fingi in Canada. It was in recomition of his attainments in this selected by the Ontavion Sownomen was a memule of the Roval (ommi sion to inverikate the sub ject
of the trial)
cedume fruit treein of the provice one for that attaiments are a constant surpriso th thise who

have grasped the true bearing and the importance a ware this subject io fint ber deaders are curriculum of the onturt bêing placed upon the and the Minister of Education was fortunate, in manning the new Normal school, to be able to
secure the services of Mr. Dearnis to with those upon whom rests the responsibilitity training in the art and science of teaching those ,ino wil in future be entrusted with the country's pmpic schuol work, which, to our mind, outranks in tutes or universities, because in the former is laid the educational foundation of the country's youth.

## Cement C'oncrete Structures.

Mr. Isaac Usher, of Queenston, Ont., in his In stitute talks gives a few of the essentials and "In building concrete structures, clean grave or sandy. It must not be too be earthy, loamy gravel should run in size from a whent ain size. If gravel of this sort is wheat, about eight
barrels of gravel are used to one of cement, and it barrels of gravel are ised to one of cement, and it
makes a stronger wall than very fine gravel and cement, equal parts, and is also more econominal Cement is put up in jute and paper bags. The jute
bags hold two cultic feet of cement. The prepra bags hold two culic feet of cement. The prepara-
tion of the concrete mixture is somewhat as tion of the concrete mixture is somewhat as
follows: A bottomless box, 3 ft . by +ft . by 1 ft . high, is used, on a large platform where the mixing is done. The box is placed and half filled with gravel, then half the cement to be used is addeld
then to the box is added as much more gravel, and then the balance of the cement. (The proportion here is 1 to $6-12$ cubic feet of gravel and $\geqslant$ cubic feet of cement.) This is mured thoroughly Dry!
When thoroughly mixed, water is added gradnally. About three to four pails of water is needed for the above quantity, varying a little according to amount of moisture already in the
gravel. The water is thoroughly worked in until gravel. The water is thoroughly worked in until
the mixture has the consistency of mortar. Only a sme mixture has the consistency of mortar. Only a gravel athout the size of eggs heing most econom-
ical. Mi, thoroughly, omed when usiny rom doom hurr. It is be ter to excavate to get a good founinches thick, and on this is built a 10 -inch wally the wall heing built in center of the footing (foundation. This size wall will support any weight in comnection with in harn structure. Planks and
studding are used to hold cement concrete while building; another method is by the use of clamps.
A railroad lairow is the most useful article for A railroad harrow is the most useful article for
carrying the concrete mixture around in. Large stones can be used in the heart of the wall, but
they must be rammed down tightly cement will, with the necessary gravel, build a wall 35 feet long and 1 foot high (iood cisterns can be
buit in the ground with this material. The walls are unually finches thick, with a parachute roof20) inches across. The In this roof is a manhole (gutter) is put in first thens. The manure trough and "x8 stall side is nsed to hold the cement in Gate. There is a slight slope in the stalls, about if atont 3 inchen thick, 2 inches of the rough 16 to 1 then about of an inch of the 2 to 1 concrete being Hised on top of the first lot. In this method one all the stronger and will wear better if it is for 1 fomulation for thi though concrete (6 to 1 ). The stones, an ther thoromshly, thien put on a layer of sand one earth put the concrem rimht of this the concrete. Never min milt in at the side for the stall posts. The sockets are left in umelaiff to one hour, then withdrawn In homse stalls a 2 -inch fall is given. If shatpshod top of the concrete. Flonss should ne planked on with the concrete. Flomrs should not be polished
with iron trowel, as it will make a slippery
$\qquad$

[^0]THE ARMER'S ADVOCATE $\begin{gathered}\text { the agency of the pump, and drawn from cows } \\ \text { whose water supply is impure and whose food is }\end{gathered}$
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 Eastrex Ofrck:
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Tnberculosis Discussed in Parliament. The members of the Canadian House of Com-
mons spent the greater part of one day,'s session recently discussing the question of the prevention of tuberculosis in human beings and animals. points were made, still the observations of the various M. Ps. and the Minister of Agriculture, Hon. Mr. Fisher, will tend to emphasize certain aspects of the subject that should not be lost sight
of, and others reparding which there of, and others regarding which there appears to be
danger that the zeal of some persons will rum ahead of their judgment and knowletge. The Minister of Agriculture announced that he had taken the pre-
caution to have Canada represented at the late Tuberoulosis Congress in Bepresented at the late
Farrel, of Halifiax, whose ruany, hy Dr. ment should throw, lighithe ureport to this disease and its most modern and eftective treatment-
 its ase by the general public wouhd be a mistake inquiry into the experience of persons cengaged
officially in tuberculintesting in the state of York and elsewhere. Its use is a diagnostic agent is comparatively a neiv thing. An erroc in the
quantity or strength of the dose injected min the quantity or strength of the dose injected may, give animenrect dagnosis of the real condition of the
animaloperated upon, and muder certain natura or
exciting conditions the temperature of in in pertecti) exciting conditions the temperature of in perfecty
hracthy
and Theathyy animat may rise. Forthermore the pair
ticular way, as weil as the degree in which the
temperathe,
 mase is sume low wr inceridental disturb hance It Ond or wow text, d, not show the raction. l...

often largely made up of refuse from tre the victims of malnutrition little ones are simpl frequently been drawn to the stables of some of these town milkmen that were in as wretchedly
Mr. John McMillan, M. P., voiced the sentimen of the more ad vanced stockmen of Canada when he said that thirty-six years' experience as a farmer had brought him to the conclusion that it was just
as necessary to keep the barns. and stables dist as necessary to keep the barns. and stables disin
fected and in a cleanly condition as it was for looking after the sanitation of dwellings for haman beings.
Hon.
Hon. Mr. Fisher briefly reviewed his policy, Whichmation, to require the testing of imported animals, and making provision for the free testing by veterinary officers, of Canadian herds for those desiring it, under special regulations. As a result,
some 16,000 cattle had been tested with and out of this number only 1,017 reacted, or anbout 6 per cent., which was a low percentage when it is bocated in unsanitary byres neair larye cities, that had been tested.
Mr. Clancy, M. P., contended that the disease could not be stamped out while owners were to be diseased. The policy was half-hearted and should be more thoroughgoing in order to mini mize the disease and reduce the danger to other stock and human beings
Judging from the costly, unfortunate and un-
atisfactory experience of States that mented with the "stamping-out" process by test and slaughter, the Government would certainly be ill-advised to embark upon such a dubious and annecessary undertaking. Prof. H. W. Conn, Ph.
D., of the Storrs Experiment Station. Connecticut recently made a thorough study of this whole subject in England, France. Holland, Denmark, witzerland, Germany, and Italy, and his repor,

royal judge.
First-prize Shorthorn bull calf under one year, Winnipes

reviewed at length in the May 20th issue of the tuberculosis appeare, stated that while bovine test and slaughter-house examinations, to have dargely increased of late years in Europe, ye during the past fifty years human tuberculosis had
decreased fifty decreased fifty per cent. He also asserts emphat cate, that the passage of this disease from animal to man is not a common method of dissemination andeed, we are inclined to believe that it is entirely disease is commonly called, conse, we believe as the barily commmicated by means of gerims in the one person to another, usually in the same househoe predisposing individual opportunity wher roundings are favomate to disease. This, then sary field for the efforts of physicians and health The patient old cow has in her time been sub) we is the great somre of human abberculosis wat taking tuberalosis to some has been charged with were ascertainatholy known: while if the truth Probably took the disease in their own bodies: 18 danger of takins the diterese would we approciathe



tubercular disease in any organ as in Canada. But spasmodically pr, we have panicky regulations ing, perhaps, but ill-informed, or else "worked" ordersons who would create a hogus alarm in while the public bears the inal or personal interest expense. At the same time, the farmer or stock profitable production and his own his animals, ally, will take every needed precaution (by breeding stock healthy in every respect, by the use of wholesnme food and pure water, reasonable exer pure air and light) in order to maintain and of prove the position we now hold.

## Farmers' Institutes.

IRD's hill
On June 26th the Bird's Hill Farmers' Institute held their annual meeting and election of officers
E. Hoddinott was elected President: Wm. Knipe Secretary-Treasurer. This society has a Babcock are tester, take a number of farm periodicals, and the members. After a grass seeder for the use of C. C. McDonald and A. G. Hopkins, V. S., gave their respective addresses - Dairying and Confair, and good interest was shown attendance was

Held two meetings-one at Pipestone and the the two places alternately. Both meetings were well attended. A considerable interest was evinced in the subjects of the speakers. Dairying especially ability being inquired into especially oil test's relihere are not satisfied with the cream-gathering plan, and desire further instruction in farm dairyng. A. G. Hopkins, B. Agr., spoke on economical purpose (general purpose) cow. This or the dual thriving one, and always has good meetings. In this neighborhood, as with others, female help is at a premium. One of the prominent farmers advowork, as is done in British Columbia. Considerable interest was excited by the theme, "Contagious diseases of anmmals, due to the fact that glanders has ive, as is evidenced by the attempty is progressa good heary draft stallion. Such horses, weighing at least 1,850 to $2,000 \mathrm{lbs}$., are badly needed in the country districts.
holland
A fairly good meeting was held here under the same as above, giving their respective lectures, "Dairying" and "Contagions Diseases of Animals." dairying practice eliciting it good discussion as did contagious abortion in cattle, and navel disease in foals.
glexboro
At this town only a small audience greeted the speeches, yet a fair discussion ensued. No Institute having yet felt the need of one. Wheat-raising is persists in being a erage agriculturist of Manitoba persists in being a special earth tiller. He is not a
farmer in the full sense of the word
Thic Inctitme bradwardine.
and A. G. Hopkins, B. Agr. This is a very. Usher Institute, both numerically and in quality. Nrong Concrete for Farm Builinos." In on "Cement agricultural district good buildings are boiny erected, so that the address on buildings was ver yuestionse. Hopkins was asked a number of and navel disease in foals. ak river
the Town Hall, to meet the the speakers meeting in the Department of Agriculture. Mr. Isaac Isher on the use of cement in tare instructive addres the subject of ventilation farm buildings, going inte Hopkins spoke on contagious diseaces of and answered a number of questions on contarious andience had come disease of foals. Some of the meeting, the subjects being live ones to attend the R.ipil) City
ected officers held a rery successful merting. and their ofticials are energetic and interested and Wat taken in the varions subjects Great interest B. Agr, were kept hush amswering A. ©. Hopkins,

Dates of Fairs.
Rolling litive. Aug. 1sth.
cher

Winnipeg Industrial Exhibition. The following is a continuation of our report of Grades and fat cattie
For the first time separate classes were given for beef and dairy time separate classes were given for
Whether this classification is any ill the sections. one class to be judged from a "general purpose " of animals of a distinctly of animals of a distinctly general purpose type
were shown in either class. The beef grades were principally Shorthorns, with a few Herefords, and
the dairy grades showed crosses of one or other of the dairy grades showed crosses
The Beef Grades were judged by Mr. Wm. Watt, of Salem, Ont., who also judged the beef breeds, and the successful competitors were: In cow 4 years
or over, first to Wm . Sharman's Hereford grade.

hard series.
Imported Thoroughbred stallion exhbited by R. . M. M. Power,
Carberry, Manitobabiat the
Exhibition, 1899 innipeg Induistrial
She is a magnificent, big, stylish cow, but a little far
off the ground. Second and third went to neat Shorthorn grade shown by Geo. Allison, Elkhorn. In 3-year-olds Mr. Allison had no competition, but had out three strong entries-roans Baldwin, of Manitou, won first and second with a pair of neat yearling heifers by Crown Jewel. The herd prize for femaes went to the very uniform
herd shown by Geo. Allison, and second to D. Fraser \& Sons, Emerson.
Wm. Stewart, of Menie, Ont., who also passed on Wm. Stewart, of Menie, Ont., who also passed on
all dairy breeds. In this class also Wm Sharman was successful, but with an entirely different type
of beast-this time a special purose dairy type of beast this time a special purpose dairy type, Fillpail, a cow well used to wearing the red ticket at the winnipeg Industrial, as well as other fairs. in the younger classes. A. B. Potter and Oughton Bros. showed fairly good cows in the aged class.
Steel Bros., Glenboro, had the winner in the 2-yearold and yearling classes, with very nice Ayrshire
grades. W. V. Edwards presented a third prize winner in the yearling class, a grade Jersey, whose dam gives 14 pounds of butter per week. W.
Hardy, Pomeroy, had first on an Ayrshire grade calf, and Wm. Sharman first on herd of 4 females with Fillpail and her daughters.
For the special given by Hon. Thos. Greenway for the best milk cow, pure-bred or grade, six
handsome, deep-milking cows lined up. After careful deliberation, the judge sent the red to Steel's Heather Daisy, the second prize cow in the Ayrshire class, as he considered her the best milk cow, and milk veins, and is evidently a cow of great capacity. Second prize went to Glennie's Daisy
Teake's Queen, a number of extra good ones remainTeake's Queen, a number of extra good ones remain-
ing unplaced.
Fat Cattle. - In the section for steer 3 years or ing unplaced. - In the section for steer 3 years or
Fat Cattle.-In
over, three magnificent specimens of constitutionand feeder's skill lined up before the judge, Mr. Watt. With the present-day fashion for "baby beef," we monsters. It don't pay. D. Fraser \& Sons were first and second, the red going deservedly to Tupper, a short-legged, thick-set block, and the blue to a
3 -year-old of their own breeding, and a fine animal too, but a little more leggy and not as perfect in his under lines. Purves Thomson wat third on a
capital steer. Frasers were alone in 2 -year-olds, capital steer. Frasers were alone in 2-year-olds,
and 2 nd in yearlings, Thomson winning in the and 2nd in yearlings, Thomson winning in the competed. First went to a very fat red shown by
P. Thomson, and second to Frasers' roan cow. It P. Thomson, and second to Frasers roan cow. It went to a neat Hereford grade shown by Benal-
lack \& Lafrance. These exhibitors had the first on 3 -year-olds with a very fancy heifer, level and
smooth. Frasers second. Frasers first on calf, and smooth. Frasers second. Frasers first on calf, an
Benallack \& Lafrance first on four fat animals. The dairy building at the Winnipeg Industrial judge, Prof. Haccker, of the Minnestata and the cultural college. promomed the, balityexceedingly
uniform and of high excellence. There was it
noticeable improvement in the general appearance of the exhibits over previous years. Packages were free from fancy figuring, and most packages were attractive. In farm dairy prints there is still room for improvement in the finish and in the quality of parchment paper used. In some cases poor paper "fancy, ornamental" pats for table the score. In satisfactory falling off from year to year
The exhibit of cheese was larger and better than or some years, and the cheese showed more care and some of it showed a lack of closeness in body The entries in factory butter and home dairy classes were large, and the scores very close together. The prizewinners and the scores are given below: Cheese. -Factory, colored : 1st, E. Dubois, Lorette ; 2nd, K. W. Remier, Steinbach ; 3rd, A. 1st, J. H. Ross, St. Francois Xavier; 2nd, E. Dubois, orette; 3rd, K. W. Remier, sternbach. Newdale; 2nd, Rapid City; 3rd, Shellmouth; 4th, Brandon, Creamery prints ; 1st, Brandon ; 2nd, Shellmouth; 3rd, Morris; 4th, Rapid City. Creamery,
assorted packages: 1st, Rapid City; 2nd, Moose Jaw; ssorted packages: 1st, Rapid City; 2nd, Moose Jaw creamery butter went to Newdale. Home dairy, 20-1b. packages: 1st, Mrs. F. Robertson, Marquette 2nd, Mrs. Rolston, Rapid City; 3rd, Mrs. Isaad Prints, 10 lbs. : 1st. Geo. White Springfield . 2nd D. Sutherland, Suthwyn; 3rd, H. Johnson, Logan,
Iowa. Prints, 5 lhs. :1st, Miss I, Scott, Meadow Iowa. Prints, 5 lhs. : 1 st, Miss L. Scott, Meadow
Lea; 2nd, Isace Scott, Marquette ; 3rd, Miss W. B. Hall, Headingly. Package, 20 liss., made by farmer's wife or daughter : 1st, Miss Pritchard, Oak Point; 2 2nd. Miss Cummings, Lone Tree ; 3rd, Mrs. Alex. McCrae, Turtle River; 5th, Mrs. Bewell, under 18 years of age: : 1 st , Miss Bewell, Rosser ; 2nd, Miss Edwards, Souris.

## DAIRY MACHINERY.

In the annex to the dairy building proper space is allotted for exhibiting dairy machinery and utensils. The most notable exhibits in this line
were those of $\mathbb{R}$. A. Lister \& Co.'s Alexandra and Melotte hand and power cream separators ; Disbrow Combined Churn and Worker ; gasoline engines suitable for farm dairies, and a full line of
dairy supplies. The Canadian Dairy Supply Co exhibited DeLaval Separators in various sizes, and also a dog tread power, which attracted considerable attention. The Manitoba Cream Separator Co. Bharre showed the American and other lines of supplies. In this building the David Maxwell Co. showed a full line of their barrel churns, operated
by a lever instead of old-fashioned crank, and fitted by a lever instead of
with ball bearings.

## grain.

There were seven entries for the $\$ 100$ prize given by the Union Bank for the best 25 bushels Red Fyfe
wheat; Harvey Coates, Pomeroy, capturing ist, with a very beautiful sample; A. E. Mellon, of by the Hudson's Bay Co. The other competitors were Thos. Maynard and Chas. Camphell, of Delo-
raine: R. Jackson, Hartney : Neil Martin, Wasean Assa, and W. Jaffray, Ellkhorn.
For the best five bushels of Red Fyfe, the prizes were awarded in the following order : H. Coates, AGRicultural Machinery . Jaffray. From year to year the machinerv.
implements has grown in size and importance at the Winnipeg Industrial. This year the display in this department exceeded that of any previous year. most creditable exhibits, and in spite of the made that the machinery hall had been increased to nearly double its former size, there was still a great lack of accommodation, and the directorate will have to provide greatly increased facilities for implements, carriages, etc., as there is no doubt this attractive and important to the thousands of
farmers who visit the fair. Half a dozen firms farmers who visit the fair. Half a dozen firms everything from the two-wheeled go-cart to the elegant Gladstone. Space will not permit of a detailed review of the implement department. mentioned the following.
Massey-Harris Co., with a complete line of haying and harvesting machinery, Verity plows, spring Massey (Co's engines (portable and the Sawyer threshers (from the small-sized horse power to the largest), completely rigged with self-feeder and blower attachments. In the Massey exhibit, one of
the leading features was a model of a Manitoba farm with a couple of
work in a field of wheat.
The Cockshutt Plow Company hat their spure tastefully laid out with a full line of their new highlift sulky and gang plows, their new pattern stubble
plows, which look as if they would clean anyWhere and do the best kind of work. They also
showed shoe and disk drills, the latter being fitted with disks of this Companys own patent, which
they guarantope toclean in any kind of soil and give

Goold, Shapley id Muir Ideal steel windmills with
roller bearings ; also a full line of grain crushers, Btraw cutters, etc. George, had a full line of land ultivators, straw cutters, root pulpers, etc.
Joseph-Maw \& Co. exhibited the Chicago Aernotor windmills in various sizes. These up-to-date machines are fitted with ball bearings, and give good satisfaction.
The Fairchild
display at the Industriny always make an elegant exception, not the least attractive part of it being that occupied by the Deering mowers, binders, and ments are two well known to need further comment. The firm also exhibited the Wilkinson plows sulky, gang, and walking plows, as well as the
American John Deere. Also Monitor seeders, and American John Deere. Also Monitor sed H. F. Anderson showed Moline Plow Company's high-lift gang, rotary Dutchman and walking plows; also the Speight and Fish Bros. wagons. also to the front with a full line of having and harvesting machinery. Their Winnipeg agent is Mr. W. A. Cavanagh. The Parlin \& Oreudorff Canton Clipper plow
and Kentucky shoe drill were shown by Johnston \& Stewart.
The Bradley X Rays gang plows, and the Rushford wagons, by Alex. ©. McRae. Chatham Wagon Co. also had an extensive The John Watson Manufacturing Co. had a full line of live-stock machinery, such as straw cutters, grain crushers, and root pulpers, etc., stubble and Haying and harvesting mehin
the exhibit made by Frost \& Wood was included Sylvester Bros. exhibited disk and shoe drills;
the disk drills of the Stevenson patent also weders the disk drills of the Ste enson patent ; also weeders land rollers, etc.
Rock Island I
as well as gang and śulk. showed their disk plows The Dowaglac Manufacturing Company showed full line of their improved seeders.
A good deal of interest centered around the twerve-foot Craver harvester. To this machine four vester. This machine is intended to cut and bind a welve-foot swath.
grounds formed in themselves quite the exhibition should have a ten-acre plot, instead of being conthe monstrous traction engines and the great separs tors, with self-feeding and blower attachments, were objects of great interest. Among the many outfits in full operation were exhibits made by the J. I. Case ; the John Abell; the Minneapolis; the Battle Creek; Advance; the New Huber Threshing Machine Co. ; the Waterloo Manufacturing Company ; Gaar, scott \& Co., of Richmond, InCo., of Indiana, had a 12-horse-power mounted gasoline engine, which was running a Waterloo


First-prize Rerkshire sow, over 6 months and under 12, owned by roderick mkenzie, high blufr, man
separator, and formed a very attractive feature to many as the first gasoline engine suitable for this purpose exhibited in this country
Stubble burners were shown by E. Caniff, who for years has been working on the improvement of
his machine, and also ly Ashdown, of Portage la Prairie, who has a stubble burner using gartage which he claims is very effective

Stump pullers and scrubbers were shown by H. A. Fhiserand A. Brown, both of Hamiota. These handy in cleaning up poplar and willow land.

The "Farmer's Advocate" at the Toronto Industrial.
mamers Adoocate will, as in previous years, have an office in the Press Bureau building, situated across the street north-east of the main Eulding, during the two weeks of the Industrial
Exhibition, where we will be pleased to meet our
friends and patrons.

The Brandon Fair.
The Western Agriculture and Arts Association mediately following the Winnipeg Industriue im 18 th to 21 st. Althongh the Brandon Fair of 1898 was an muprecedented success, that of 1899 was even
more so. The officers and directors and the ener more so. The officers and directors and the ener
getic Secretary had for months been devoting time and energy to leave nothing undone that would tend to the success of the Fair, and when the gates were
thrown open a much larger number of exhibits than thrown open a much larger number of exhibits than
ever before were in pusition. The weather was most propitious, and the people came in crowds, all int the best of humor and prepared to enjoy them selves, which they apparently did to their hearts content. The grounds are very much improved by the laying out of gravel roads, with rows of tree pre extended from year to year, the grounds will become more attrartive and beautiful. It is no disparagement to the management of the Agricul


BRAMPTON MONARCH
wo-year-old Jersey bull. Winner of championship, Toronto
Exhibition, 1898 . ${ }^{\text {(Soe }}$ Stock Gossip, page 423.). owned by b. h. bull \& son, brampton, ont
they have is the opportunity afforded of visiting
the Experimental Farm, and hundreds of farmers the Experimental Farm, and hundreds of farmers much to visit the Farm as to see the Farap rates as side of the live stock exhibits, it goes without suying that as important lessous can be learned on the Farm as in the Fair grounds. This year the Farm looks
woll and shows the work of a master hand. Apart from the general attractiveness of the tree-planted avenues and drives, the arboretum and shrubberies, perhaps no feature is so noticeable and so pleasing
as the alsence of weeds. The ffects of thong cultivation and systematic The effects of thorough seen to greater advantage, although there is now ten times more work to be overtaken on the Farm than when it was started; there are no more men can now with a minimum of labor (and that nearly all horse labor) be kept in subjection, and every farmer can appreciate what, an immense saving of soil, but in the harvesting, threshing. marketing, etc. Great interest was shown by the visitors in grass plots were also an object of small fruits. The Brome grass being particularly interesting. Every plot of this grass, whether old or new, or under
whatsoever treatment, seems fo flourish. The patches of clover and alfalfa were also much ad-
mired, and great hones entertained for the ful introduction of these most useful forlder successand soil restorers. The beantiful showing of hardy annual and perennial flowering plants was a source of drom these object lessons many a farm home will be - Horses.

The exhibit in this class was good, there being considerably more entries than in any previous
year, and the average quatity showed some ad Wance, It was the general remark around the ring that the horses, especially the younger classes, from throughout this district many farmers depend almost entirely on green-cut oat sheares instead of hay, it would be worth noting whether this has
anything to do with the condition of the ronng hurse stack. The light horses were judged boung Yomp, of Manitom, and the heare clased by WV:
Brishan, of Cohourg, and Wm. Watt, of Salem, Ont. Although there was no special room for fatult findAng emstration class, stavor of the was one more clear the work of one judy of he the single judge system.
poditinusly moditionsly, and type and breed chatacter more
closely adhemed to thonghout the various sections



and finish of his successful rival. In brood mares,
T. Elder, Blyth, had the first premium in a grand T. Elder, Blyth, had the first premium in a grand
good one, bred by N. P. Clark, of Minnesota ; second going to J. B. Thompson's (Hamiota) Lady Almondale. This matron's fillies, Adeline McGregor and Princess Royal, both by Auldmuir 4230, were successful in their respective classes, and
dam were first in mare and progeny class.

$$
\begin{aligned}
& \text { J. A. S. Macmillan's Nailsto }
\end{aligned}
$$

ne Morning Star II Ho lig season, through the wet spring and heavy roads, and is in lower condition than previously
heavy draft.
ced going to $\cdot$ Hughes \& Long on a lige paraded, the recently imported from Ontario, and the blue to J. brought out. N. Rodgers had the first prize brood mare, and F. Rowland second. A. Cummings, Lone Tree, had an entry in yearling class, being without
competition. Three draft foals came before the udges. A. Cummings was tirst, with a hir, the judges. A. Cummings was first, with a big, sappy
colt, by Kintyre Hero; second going to a tine
Burnbrae foal, shown by F . Rowland the third Burnbrae foal, shown by F. Rowland. The third
entry was also a Burnbrae foal, shown by A. Mcentry was also al
Phail, Brandon.
ven for agricultural and als general purpose, as well as heavy draft, and each
exhibitor is left to make his own definition of what these terms mean, and enter his stock wherever he thinks he stands best chance of winning. Much more intelligent results would follow if a clearer
definition could be given these classes agricultural and general purpose classes. Both well entered, all good former class there were five teams the judges no easy task in selecting the two best. They sent the red, however, to D. T. Wilson's handsome bays, a team that fitted the class, second
went to a thick, low-set team of blocks, just brought in from Ontario by W., E. Butler. Many would have preferred the larger, more up-standing pair shown by Mr. Bastard, of Brawardine. Others thought them too heavy for the class. While they for the draft class. N. Reid's browns and A. Mc Phail's bays were left unplaced. A. Mr-Phail was first on brood mare, with a Burnbrate foal hy side
Cummings second. I). T. Vilsim, Wim. Sanderson, Souris, were the winners through out the balance of the class, with N. Rivigers first on The call geveral purpose.
a The call fur teams brought out four really good
teams, well fitted, harnessed and handled of Blyth, was first, with a particularly attralder clean-cut, groxl-actioned pair; second going to A. Mc Gee'syray teamb, of similar teque and gonal onality. A. by Pascha. J. B. King, Fairfax. firston 3-yeat-old Ed. Russell, Douglas, first on 2 year-old, wear-old extra well developed roan. D. 'T'. Wilson first on
yearling, with a loig, drafty colt. He was also first yearling, with a hig, drafty colt. He was also first a
with his German coach horse was anl casy winnet NePhail won, with a Pascha foal, and Woorlcock foals and not properly belonging to this grade Under the rule of the class, the same applies to the without competition pair of carriage horses were judge, and were placed according to style and coupled with roundness, etc. First, R. Willis, Foissevain, on a bay with beautiful action; A. French, Dauphin, second.
Four aged stallions came out in this ring, heade shown by R. S. Fultongy frowns, with great action to Dr. Hurd, shown by Shaw, of Carlbery. R. I. M. Click. In brood mare vearling, foal, year-olds with progeny, Mr. Ernes, Brandon, was, and mare and tickets on Coleen, a beautiful sorrel mare, and her strong, (artberry, conimg intolf: Shatw and Arm-

decision on stalions fand suldstance judge, who based his Arabus, a his, strong horse, shown by R. S. Fult th With Pathmont seconds College Boy, shown hy and his brother. Colleare Chum, hred by Mre Lach2 -year-olds.
Brood mare (hondraters
mares, first going to a fintely-turned mare with a second to F. Wödeock. Ghater: In teamen paite of chosmuts. Was thot. With a weell materned



In the aged stallion class the Winnipeg competitors again came together, and were placed in Carberry, being first, and Mr. Macmillan’s Prince Danegelt second. Mr. Macmillan's special for Prince
Danegelt foals went to F . Woodcock, first; T Mitchell, focond
Some very nice ponies and saddlers were shown The winners will appea
to be published next is

Most of the breeds were fairly well represented frect that petition, probably owing in part to the fact that
Lhe prize list was not very aturactive, there being only two prizes in each section, and the amounts bot sufficientily large to be tempting. The beef Snell, London, Ont., and the dairy breeds by Mr. James Bray, Portage la Prairie.
were represented by excellent selections from the
herds of F . W. Brown, Portage la Prairie, and D , herds of F. W. Brown, Portage la Prairie, and D. showed a few, and won several prizes in the Prov-ince-bred competition, and also first for three-yearold cows in the open class. The herd prize for best herd was made up of the first prize yearling bult Riverside Stamp; second prize cow, Daisy of Strath allan 12th; first prize two-year-old heifer, Jubilee Queen (winner of sweepstakes at Winnipeg) ; first (Vinnipeg); and the first prize heifer calf. Mr Brown's herd, to which the second prize was awarded, included the first prize three-year-old bull, and sweepstakes winner here, Lyndhurst III.
(who had also won first at Winnipeg) ; the firs. (whize cow here, Gaiety 5th, and her heifer calf the second prize yearling heifer, and another good heifer of the same age. Mr. J. S. Roobson's bull
calf, Royal Judge, who was placed firstat Winnipeg calf, Royal Judge, who was placed first at Winnipeg,
held the same position here. Hon. Mr. Greenway had a choice selection of Shorthorns on exhibition though not for competition. Among these were year; the four year cow the champion here las year-old Gem of A cow Freida, and the three Capt. Robson, Ilderton, Ont., and will probably be in his show herd at the Toronto Industrial Exhibition next month. herefords
were well shown by J. E. Marples, Deleau, wh in the class, having recently bulk of the other prizes Vm. Sharman's show herd, and made a very creaitable display of typical animals. Mr. Shar-
man had the first prize two-year-old bull, Pride of Westview (bred by Dr. Wilson, Moe's River, Que ) which also won the sweepstakes as best bull any ge, and is of the proper type. The
POLLED ANGUS
breed was well represented by the herd of Alex.
Cummings, Lone Tree, which won Cummings, Lone Tree, which won first prize, and ship of the class. A. B. Fleming, Brandon, also showed a number in this class, and won several prizes. holsteins
Were shown by James Glennie, Longburn, ;'A. B Potter, Montgomery, who secured it number of
prizes; and James Herriot, Souris, who won


Three-year-old Brown Swiss heifer. At Agricultural College,
Laining. Mich., best weekly buiter record, 9.52 pounds.
second prize with an exceptionally good cow of
fine dairy type and carrying a model shaped
V. prizes he showed forcessful in winning all the firs Mrizes he showed for, including the sweepstakes for Teake: Queen, one of the very best of the breed in
 including the herd major heaty of the first prizes
field. the sweopstakis by Dean of High field. the sweopstakes bull, and incluang of High-
Rosebmi. the fint mize cow which. he elanke givine tifty Mombl) mize cow (which, he claims, wa
mize (haty. Tip Mathome); the second


Ayrshires
were shown by A. Mutter, Brandon (who was herd prize and sweepstakes for bull), and by W. M. Smith, Fairfield Plains, Ont., who had the second prize yearling bull. The special prize of $\$ 2 \overline{5}$, offered by the Bank of manager, Mr. H. G. Marquis, for the best herd (one manager, Mr. H. G. Marquis, for the best herd (oume two any pure-bred class, bred in Manitoba or N.-W. T., was awarded to J. E. Marples,
lent young herd of Herefords.
shemp.
The judges of sheep and swine were Messrs. J The judges of sheep and swine were Messrs. J.
Mccqueen, Carievale, and J. Yule, Crystal City. Mhe competition in the classes for sheep was limited, there being more in the class for Leicester

hackney stallion, grand cadet 4797. Winner of champion prizes at the Royal, the Highland, and property a. w. hickling, adbolton, nottingham, eng.
A. D. Gamley, Brandon; Jas. Murray, Lyleton prizes for 2-shear ram, shearling ewes, ewe lambs pen of one ram, two ewes, and two ewe lambs, and shearling ram, first and second for two-year-oldewes and second for two-year-old ram, ram lamb, shealing
ewes, and ewe lambs. Preston had the first prize ewes, and
ram lamb.

## OXFORD DOWN

In Oxford Downs,-Alex. Wood, Souris, was the only exhibitor ; and in
southiomes,
W. M. Smith, Fairfield Plains, had the field to himself.
There were no Shropshires shown, and there being no class for Cotsw ony other pure breed. FW.W Brown, Portage la Prairie, Showed Cotswolds ; and R. H. Harding, Thorndale, Ont., Dorsets. The latter won the majority of prizes. The contest in aged first prize for each. Harding was awarded first for shearling ram, ram lamb, shearling ewes, ewe lambs,
and for pen of one ram, two ewes, and two ewe and for pen of one ram, two ewes, and two ewe lambs. The first prize for aged ewes went to Brown,
who had also second for ram lamb and ewe lambs. swine.
The swine classes were fairly well filled, and BERKSHIRES,
R. McKenzie, High Bluff, and F. W. Brown, Portage la Prairie, were the exhibitors. The former was Victor; first for boar under six months; for sow over one year and under two; for sow under six months; Victor. McKenzie had also second for boar under a year; for sow under a year; sow under six months;
and sow and litter. Brown secured first and second for yearling boars; first for boar under a year; first and second for sow over two years; for sow any age, on Cora Belle, the first prize sow
over two years. over two years. yorkshires.
The exhibitors of Yorkshires were James Bray, Portage la Prairie, and A. B. Potter, Montgomery
Mr. Bray was awarded first prize for boar under year and boar under six months; for sow over two
years, sow under six months, sow and litter, sow years, sow under six months, sow and itter, sow prize yearling sow : second for boar under six
months : for sow under six months, and for sow and litter.

Chester whites AND pol.and-chindwere grouped, and the prizes were divided het ween Chinas, and W. I.. Tram, Chester Whites I, A. Bradle F , Portage la Prairie, showed a gon

The exhibit in poultry
The exhibit in the poultry departiment was in many birds of highest excellence were shown. awards with general satisfaction.
grain
In the agricultural products building the exhibit was not as large as one would like to see in a great
grain country. The difficulties of holding over grain from one season to another very much inter doubtless, as people get better granaries and have better facilities for cleaning and holding grain, this In Red Fyfe wheature will become more prominent. In Red Fyfe wheat, best 2 bushels, W. S. Hunter No. 1 hard; John Rolston, Rapid City, being second. In the same class, open only to the E. D. of Brandon the same exhibitor was again first, with J. H. Jack son, Ebor, was first. In white oats, H. Nichol was first, and C. E. Longstaff, both of Brandon, second Some handsome samples of grain and grasses in the sheaf were shown in this department, but owing to
the lateness of the sea-on, there was not a large entry.

## Dairy Products.

Although Brandon is not known as a dairy diso accom odate the exhibit was taxed aiter Dutmost intendent Macdonald acted as judge. In cheese the entries were not numerous. A. Thompson was first in factory colored, with B. Dutton, Butte, second;
and in factory white, these two exhibitors were reversed. Thompson was first in the homemade class. In creamery, A. A. Jory, Rapid City, first ;
Alex. Scott, Morris, second ; and L. A. Race, Brandon, third. Out of 24 entries in farm dairy, 30 lbs., man, Elkhorn, second; and D. V. Edwards, Souris third. In prints, same number of entries, Mrs Rodgers was again first, Edwards second, and Mrs Ballantyne, Brandon, third. In class for farm dairy
20 Mrs. J. B. Gibson, Alameda, first; W. H. Young Minnedosa, second; John Gorrell, Carberry, third Sweepstakes for the best dairy butter using Alex Other prizes will be given in full in complete prize list. Special exhibits of cream separators and dairy supplies were made by the R. A. Lister Co., the
Canadian Dairy Supply Co., and the Manitoba Cream Separator Co.
The agricultural implement display was the largest and most complete ever made at this fair, and Bros.' disk and shoe drills, weeders, land rollers, farm wagons, six-horse-power Dandy windmill, etc. Verity Massey-Harris Co., binders, mowers, rakes, fanning mills, and the Sawyer-Massey traction engines and separators, fitted with blower attach Smith, Inglis \& Nelson; McCormick binders and mowers ; Parlin \& Orendorft's Canton Clipper plows and Minneapolis Chreshing machine outits; the plows, new pattern stubble breaker and brush plows, disk and shoe drills, cultivators and weeders;
and the Goold, Shapley \& Muir Co.'s Ideal wind mills, grain grinders, etc.; John Abell's threshing outfits; David Maxwell \& Sons, mowers, rakes, and new steel-frame barrel churn with roller bearings
D. Bell \& Sons, full line of straw cutters, root pulp ers, grain crushers, and land cultivators: McLeod Deering Ideal mowers, rakes and binders, and that tle Creek separators; the J. I. Case threshing out fits. Brandon Machine Works, whose specialty is soil packer of their own manufacture, an Acme grain pickler and a feed cooker ; Frost \& Wood Co. mowers, rakes and binders, etc.; the New Hube Threshing Machine coiler, Brandon, a full line of wooden and iron pumps, as did also W. H. McIntyre \& Sons. The
Caniff stubble burner was also shown, and two stump and scrub pullers-one by A. E. Brown The Northwest Grass Twine Co also made an ex a hibit of the grass binder twine, operated on Walter A. Wood binder.

The Department of Agriculture again had special building on the grounds for the purpose of
exhibiting specimens of noxious weeds. Sample of every kind of noxious or troublesome weed were
collected and labeled, under the supervision of Dr collected and labeled, under the supervision of Dr.
Jas. Fletcher, Dominion Botanist, and Rev. Mr Burman. Hundreds of visitors stopped at the tent to make enquiries as to the name, character, and
methods of eradicating various weeds. The number of enquirers who lived in the Territories was this year very marked, showing that the work of
instruction being done by the Territorial (iovern ment is having good effect.
Can Brome Grass be Nown with Wheat? Mr. Bedford's article ont the summer treatment many perisons who like mysilf, have a smalh patch
which the intend to cut for sed. I wish to in
which
aged if the newly-sown grass makes little or no three pounds of Brome seed mixed with fifteen pounds of six-rowed barley. I let the barley and cut it with the binder, and pretty close to the ground, as the straw was short, You may remem-
ber how bare the ground was all winter, owing to the light fall of snow. Last summer ( 1898 ) it showed up rather straggling, but this year it is a splendid crop four feet high. Along side it in 1897 I sowed pound of A. caninu, Next year they came up very well, but this year the Brome grass has crowded thean out almost entirely. I am satisfled from the result obtained that Brome may be suc-
cessfully sown mixed with barley. I am anxious to cessfully sown mixed with barley. I am anxious to
know if it can be sown with wheat on a well worked summer-fallow next spring. I sowed the barley and grass, mixed together, with a hoe drill.
Turtle Mountain Municipality, Man.

## Herefords at Home

THE HEREFORDSHIRE AND wORCESTERSHIRE SHOW This annual show is one at which one generally trength. This reputation was fully maintained at the meeting of this society which took place on June 13th to 15th last at Stonebridge. There were four classes for bulls, five for females, and one family class-i. e., for bull, cow and offispring. In this latter class-a small one, but of good merit-Mr. E. Whit secured first place with Tedstone President, Dorothy 3rd and her calf by the aforenamed bull; Mr. J Tudge, a name well known amongst Hereford men calf hy the afore Viscol bupert, Ruthem and he third and W. H. Davies, R. N. In the open bul calved in 1898 a very good, even class, Mr A. F. Hughes was to the front with Prosperous, by Albion 15027 ; Mr. W. Tudge being second with Goldsmith, a capital bull; whilst third honors wen the Maximillian, a first-class bull of Mr. R. Green's the same exhibitor also being R. N. with Climax and Capt. E. A. L. Heygate were winners in the local class. Two-year-old bulls-a small entry, of Nopareil from Mr. A. E. Hughes' noted herd; Ear of Coventry being second with a very even-tleshed bull, Miser; and Mr. Laughton Moore third with
Earisfield. The old bull class was considerable merit, Messrs. A. E. Hill and E. J. Lewis being rightly placed first with Newdigate, a
grand bull, bred by Mr. J. H. Arkwright, by Pearl grand bull, bred by Mr. J. H. Ark wright, by Pearl Cross, out of Lively 18th, by Hilarity; Iron King
from Mr. E. Yeld, coming in for second honors; and Admiral, from Mr. W. A. Andrews, was third. An even and good class of yearling heifers were headed by Mr. R. Green's Lady Help, by Diplomat 18328 , her closest competitor being Waterweed, owned by third entry from this herd, Red Rachel, by Block Test, being R. N.; whilst the exhibits of Mr. S. H. Armitage and Mr P. Gordon were placed respective-
y third and fourth in the award list. In the two-


Aberdeen-angus bull, prince ito 12869. Winner of first and special prizes at the Highland Show, 1899 year-old heifer class Mr. W. Tif heifer, Leinthall Beauty, by Rupert (16306), led the grand type and character, from Mr. J. Tudge's he at Duxmoor-i. e., Lady Duxmoor, by Lord Letham 1:3937, and Wilton Star, by Forest King 18364 - came in for the second and third awards. In the cow year-old: Mr. R. ID. Cleashy second: with D our Mr. J. Tudge, R. N. The pair of heifers class wa a realy good one, in which were some very excellen yearling heifers, the first place being filled with a Gift, by King (George $18+2,2$, and British Beauty, by
Goldbox $1 \overline{5} 36$ : Mr. W. T. Bamely's pair bein There was a . Sitan Tudge thira. There was a capital lot of Shorthorns shown, and
Messrs. K Stratton. John Handley, George Harri
con and J. Deane Willis were the leading winner

One Judge or More.
The question whether a single judge or a bench of two or three is most likely to give satisfaction to
exhibitors in the awarding of prizes in the live stock department of exhibitions, is one that has often been discussed and upon which there is yet
considerable difference of opinion. With the single exception of the Toronto Industrial, the leading exhibition associations in Canada have adopted the more general satisfaction than was formern, with by committees of two or more. As a rule the leading fair associations in the United States have, apparently after varied experiences, settled down oood work as three, and do it in jugery can do as good work as three, and do it in very much less exhibibitrs that thas been witnessed of late years or
at any perriod in the past has been made under two


A group of thoroughbreds.

the property of e. t. Earnes, quenn's hotel, brandon, man.
tators, the cattle and their attendants were wearied been made that the animals and the men gave vidence in their appearance of having aged under
the operation. The objection has been gade to single judge that the man chosen may be prejudiced in favor of a certain family or type of cattle, and if not more, to his favorites the benefit of a doubt, more likely to be accepted under the dual system. on the presumption that his colleague will counteract such a tendency, and our opinion is that a man wronounced prejudices would be more likely to associated with another man, by endeavoring to persuade his partner to agree with him, since he would not have to assume the responsibility alone, shift it, while if he were acting alone, he would feel the fuli weight of the responsibility, would be more careful to do exactly what he
believed to be the right and believed to be the right, and
would more clearly realize that his personal judgment and honor were at stake, and that the eyes
of breeders of breeders who are as good
judges as he are watching his judges as he are watching his
work and will form a pretty correct estimate of his competency and his hanesty as well. It may
be obiected that men compent be objected that men competent
to act singly are not plentiful to act singly are not plentiful,
but to this the answer is that it takes twice as many to make a competent bench of two, and thrice as many to make a reli-
able committee of three, and if there are enough gooo, men to
fill the bill in the latter cases, there should be little difficulty

Our Scottish Letter. the highland show, a great
or more judges. Two judges and a referee has been principal shows in Great Britain years at the principal shows in Great Britain, but Canadian
breeders who have witnessed their work have not been enamored with the results of the system, and it is only necessary to refer to the reports of the
Royal Counties Show, at Windso Royal Counties Show, at, Windsor, and of the published in our last two issues, to demonstrate, that the system is far from being entirely satisfactory. At both of these events the two judges the deadlock by a referee, who, as usual, was only asked to decide between the two animals selected by the acting judges, but who might, if he had been
given a free hand, have chosen and given a free hand, have chosen another and a better
from the competing list for either first or ser place, as our correspondent, a Canadian breeder and a first-class judge who reported the judging of the Shorthorn class at the Royal Show, clearly indicates
that he would have done in one or two cases at least had the matter been referred to him, and it is difficult to see why the third man should not he allowed to choose from the whole list in competition as well as the other two. Of course, if this were
allowed another tie-up might occur, and a second referee might or might not put things right if limited to the three animals chosen by as many different men. It will be noted that in all such a single judge. There is the further difficulty to be considered that if the expenses of judges are to be paid, as we certaine think they should be, the arger committee is more costly. The expenses of
the referee should also be provided for if he pis the referee should also be provided for if he is
invited to be on hand, though he may not be called to act, and he ought to be appointed by the same
 field Club one of the oldest and most successful
societies that hold stock shows in (ireat Britain hus adopted the single -judge system for its next show is pretty good evidence that the prevailing custom
there is not giving satisfaction. Whether it is owing to the growing practice fact proper one in our estima
 the date of the show, or to some other caluse, it is
worthy of note that there have been fewer cases of worthy of note that there have been fewer cases of
protest against the single judge chosen than againit
one the decisions of the single judge have cymmanded quite as much and ans yeneral respect as those of
two or more. An English exchange, while recog. two or more An English exchatinge, while recog.
nizing and tacitly admitting the convenience and efficiency of the one-iudge system, raises the point large the work can he more expeditiously done hy
t woor three. To this we decidedly demur, unless it





as champion at the London spring shows. In the Roadster class the supreme honors went to another
Welshan very fine mare Sonata ; and the pony championmare named Love Letter who is leaving his famous stud farm in the Island of Bressay, Shetland, bred almost all the prize-
winning animals of this miniature breed, and secured the championship with a sweet but stout secured the champronshed with a seet but stout
little pony stallion named Gondolier-- a tiptop one and a great favorite on the parades.
cattle.
strongly of all breeds cultivated in Scotland were reason, the one breed somewhat disanacointintable reason, the one breed somewhat disappointing in
numbers was the Galloway. This is all the more surprising from the fact that the Duke of Buccleuch, whose guest the Prince of Wales was, owns Shorthorns were a fine lot of in the country. though certain of the Maidstone champore forward, the chief honors went north. The best bull and the best animal of the breed was declared
to be Mr. A. M. Gordon's Corner Stone 68108 f the Newton herd of Insch, Aberdenchise This is a roan bull, three and a half years old, got by Touchstone bovir3 from the famous prize cow Butter Scotch. He had a tussle with Sir John Gilmour's
Brave Archer 70018, which at Maidstone, for first place in his class, but on the whole Corner Stone was entitled to the premier position on the score of symmetry and style. This herd to provide the breed champion lastrans winner being Star of Dawn, a beautifully level bull. which went to South, America. The Maidstone winner, Mr. Harrison's Count Beauty T T2207, bred
by Mr. Duthie - a good square bull rathr Dothie a good square bull, but having
rather tong a horn-led the two-vear-old class Both Her Majesty the Queen and the Prince of Wales were successful exhibitors of Shorthorn bulls. The Queen was first with a yearling and
second
with a two-year-old, female, the yearling hear-old, and the champion by Her Majesty. This heifer was female champion at Maidstone, but she had a hard job winning being a fine two-year-old heifer named opponent bred and owned by Mr. C. M. Cameron, Balnakyle Ross-shire, who has one of the best herds in Scotland. An umpire was required to decide which of honor to the roval herd. Mr. Cameron is gave the great sate in autumn, when Canadian buyers should look in. He has fine cattle. There was a many were sold for foreign export- , and Aberdeen-Angus cattle were led
hy the magnificent old bull Equestrian champion at Ballindalloch, and breed champion at Perth in
1896 , as well as first at Dumfrias in and handsome, and showed himself, in spite of his seven and a half years, as gaudy as a two-year-old Apart from Equestrian, whose owner is Colonel Smith Grant, of Auchorachan, the champion of the Ito 12869, a wonderfully well-fleshed bull, preatly improved since last year, when he was hardy in
the running. He was champion all round in 1897 .

We have been having a
altural enthusiasm in connection with the show of the Highland and Agricultural Society, which has
just been held in Edinburgh. H. R. H, the Pri of Wales is President for the year ind the Prince and Thow during most of two days-Wednesday field and took - when enormous crowds entered the never been an agricultural proceedings. like there has and, and during the four days that the show The third day TTsamounted toabout $£ 10,19519 \mathrm{~s} .6 \mathrm{dd}$, drawings for that one day amountiond a record, the The Prihich $£ 1,2861$ 15s. 5d. was paid at the John Gilmour, of Mouided during his visits by Sir Brearder of Olydesdales, who is chairman of the weather throughout has been surerb b year. The as with wet weather the ground on Prestonfield, Where it was held, would have been little better
than a morass. However, all's well that and 1899 wills forever be memorable in the history, of the National Agricultural Society of Scotland. The feature of this
great exhibition has
тни and especially the Hunt-
ing and Hacte ing and Hachney de-
partments. Strenuous efforts were made gentlemen and organi-
zations interested in these breeds to have a trige entry, and ex-
tremel
liberal prese prizes of the humting stailles of England, Sicotiand for ward, with the result
that that seotland was
shown to le far helinind in this clase of stock. in the country, Mr. (i.
J. Kidston's Passionist which has frequently
led all the shows int country, failed to get in
ticket ticket, and champion
honors went to a fovel Gendarme, from Mr. T. D. Dostnut gelding named Lalyans (ardiff. This is a very handsome sweet
well-trained horse, lint in common with
had
 Hes is np to a heavier weight than (iendatme, lou
is, per haps. scrareely as fast
would




hady ellex and the gem prince


female champions, the breed championship going
to his cow, Nancy Lee 2nd of Castlemilk, a beauty. to his cow, Nancy Lee znd of Castlemik, ampauty. Highland breed in the three-year-old bull, Calum Riabhach II. 1325, which carried off the same honor a year ago; and amongst the Ayrshires champion Mid-Ascot herd of the Messrs. McAllister in Bute. They showed splendid milk stock, which fittingly represented their high-class herd.
THE SHEEP.

Amongst sheep, the extraordinary feature was the success of Mr. Charles Howatson, of Glenbuck,
with Blackfaces (he was first in every class, and with Blackfaces (he was first in every class, and
took many other prizes), and of Mr. Robert Wallace, Auchenbrain ; Mandeline, another Ayrshire
this breed, however, went to an Angus man-Mr.
David Hume, Barrelwell, Brechin, for a beautiful gimmer of surpassing merit.

Scotland Yet."

## Suit of Interest to Farmers

when are cattle running at large?
An action of peculiar interest was tried before Judge McGibbon and a jury at Brampton last month. J. W. Albertson, of Lorne Park, owns a farm on Toronto and Hamilton, running powers. Last July, a year ago, Albertson sent his hired boy to bring the cattle from the field down to his farm. The boy collected the cattle and was driving them south along the road towards the railway track, when he suddenly saw a C. P. R. He dashed forward for the purpose of saving the cattle, but was unable to do so. Two of the cattle did not and were struck by the approaching train and killed.
The railway company contended that the boy had
not the cattle sufficiently in charge. The plaintiff not the cattle sufficiently in charge. The plaintiff denied this, and further by his witnesses proved whistle nor rung a bell, as provided by the statute, and were therefore in default. The case went to the jury, who answered all questions in favor of the plaintiff; but the railway company made a motion
for non-suit, upon which. Judge McGibbon reserved
judgment, and he has just given judgment in the judgment, and he has just given judgment in the
plaintiff's favor for the amount of the three cattle plaintiff's, favor for the amount of the three cattle
killed, which was fixed at $\$ 120$, and directed that killed, which was fix ed at $\$ 120$, and dire

Australian Frozen Meat Trade. Since frozen beef and mutton from Australia Canada, a glance at the situation as it is referred to by Mr. John Cook, of Melbourne (who has for years been intimately connected with the export meat trade), in a conversation with a representa-
tive of British Refrigeration, will be of interest. Owing to three years of severe drought in
Victoria, the sheep stock has been reduced from Victoria, the sheep stock has been reduced from
$60,000,000$ to less than $40,000,000$, with a very poor $60,000,000$ to less than $40,000,000$, with a very poor
lambing season this year. In Queensland the late lambing season this year. In Queensland the Wales the weather has been less unfavorable, so that, on
the whole, Mr. Cook considers the total number of the whole, Mr. Cook considers the total number of sheep and cattle will be nearly maintained. Mr. Cook expressed his utter opposition to Govern Mrent inspection, except for the purpose of preventing the treatment of stock found to be
unsound or diseased. He finds that it has a restricting influence upon the trade, and that the Government inspectors have neither the skill nor
the knowledge possessed by those who make it the knowledge possessed by those who make it
their business to freeze and export meat. Regarding trade with the East, Mr. Cook con-
siders its expansion will be very slow with such countries as Japan, (China, and India. As to the
present moment, there is a fair business being done in supplying the American troops in the Philippine As to the practicability of astablishing a direct
mental shipments direct to Manchester, Liverpool,
and Glasgow, with only moderate satisfaction, and (ilasgow, with only moderate satisfaction,
owing, perhaps, largely to the severity of their owing, perhaps, largely to the severity of their
competition in the matter of price and the excessive freight charges.
Mr. Cook, on being consulted on the practicachilled beef trade, expressed the opinion that the prospect of a trade in chilled meats between Australia and the United Kingdom are very remote. Firstly, the voyage of 50 to 60 days is too
long to admit of the meat being kept sound in long to admit of the meat being kept sound in a
chilled state, and in the second place, Mr. Cook holds to the opinion that freezing does not in any way injure either beef, mutton or lamb; but we believe nothing-with the Australian. Furthermore, the nothing-with the Australian. Furthermore, the
larger space required for the carriage of chilled meat, and the greater attention it would require on the voyage, would
necessarily increase the rate of necessarily increase the rate or
freight beyond the enhanced price
received. The few experiments that have been made have been complete failures, and Australian ex-
porting and freezing companies are entirely opposed to any changes in the direction of chilling as contrasted with freezing.
Australia is compe
fully with Argentina in sending fully with Argentina in sending
fortnightly meat to South Africa, which Mr. Cook considers will be only a
temporary market, since there is a temporary market, since there is a
probability of the Cape herds becoming restocked within a few
years.
Shipments of live cattle have years. Shipments of live cattle have
been tried to that country, but been tried to that country, but
with losses by mortality during with losses by mortality during
the voyage of some 60 per cent.,
dead by putting my ear over her heart. Was it milk fever? Had I been treating her properly?
Hopkinsville, Ky. [There is little room for doubt that the case so
inutely described was one of milk fever, and had she been given the Schmidt udder injections when first discovered down, she would likely have been
living to-day. The great probability is that the lving to-day. The great probability is that the
cow was killed by the drenches she received, and which she could not properly swallow, causing them to enter her Tungs. Dr. Tennant, V. S., who
has had probably twenty cases, with only two has had probably twenty cases, with only two
losses, and those from interference outside of his treatment, has altogether dispensed with drenching until after the udder injection has so far cured the case to enable her to swallow properly, and
then he gives simply a teacunful of whiskey with small quantity of ether and nux vomica. He seldom gives physic any more, as he finds the cows are generally better without it. When he reaches a patient he first washes the udder and teats with
water to which has been added a small quantity of creoline, then milks her out and injects, with a perfectly clean instrument, the Schmidt treatment at blood temperature. He also finds it well to
knead or rub the bag after the medicine is injected. $\mathbf{H e}$ then leaves her as comfortable as possible for a few hours, when she invariably gets unto her feet. Usually in about six hours after the udder injections she is able to swallow freely, when the
whiskey or other stimulant is given. It is generally necessary, or, at least, advisable, to repeat the adder injection ten hours after the first, and to continue giving the stimulating drenches every six
or eight hours for a day or two. We have heard or eight hours for aday or two. We have heard
of several veterinarians trying the new treatment of several veterinarians trying the
and all seem well satisfied with it.]

## Artificial Impregnation.

During the more prosperous periods in horse-
breeding circles the frequent disappointment to breeding circles the frequent disappointment to
the breeder in not being able to raise foals from a percentage of the best mares through apparent barrenness. led the more wide-awake to investigate the
cause of failure and seek to overcome the difficulty cause of failure and seek to overcome the difficulty.
Upon investigation it was found that in very many Upon investigation it was found that in very many
of those cases the cause of failure to breed lay in the fact of various peculiar abnormalities existing at the os-uteri (neck of womb). Frequently this
organ will, upon examination, be found to be organ will, upon examination, be found to be deposits, which only require to be carefully re-
moved and the organ dilated with the hand just moved and the organ dilated with the hand just
before service. But from what we can gather from literature and the more practical horsemen and stallion owners, the abnormality most frequenci),
lies in an unnatural entrance to the womb (os-uteri), which is either directed to the right or left, up or down, as the case may be, forming a mechanical
obstruction to the ready entrance of the vital fluid into the womb, which carries the spermatozoa to inhabit the ova; and while apparently a simple matter, these conditions have been a source of perplexity and loss to many an enthusiastic owner investigated by horse-breeders than any other class of men, it by no means follows that they are the with each breath. Sh
ably, and struggle quite frequently, as though sudden pains troubled her at inter treat her. I adminis tered a pint and a half of linseed oil and two
ounces of turpentine ounces of turpentine to
relieve the bloating. In about twenty minutes I drenched her with two pounds of Epsom salts
and an ounce of ginger For half an hour the labored breathing continued and the bloating increased. To relieve way between the hook joint and the last rib.
Had a good escape of

iPotless of ingieside and isabel.
es male and female Herefords, Wiuniper shown by J. e. marilegs, deleau, may
came quite flabby mad a rectal entry made with the hand I hat a rectal entry made with the hand dislodged from an arm's.length.. About this time
concluded to try the potassium iodide treatment which had been described in your columns in a recent issue, and was about to procure the requirel
articles when I noticed the animal discharging some chewed hay and a watery-looking matter
from her nostrils. This increased until it began to interfere with her lreathing, so I had her raised to a natural position, with her front legs bent under return the discharge to her stomach. Until this
rime (seven oidock) the cow had been conscious, time seven oclock) the cow had been conscions
though in evident distress and perceptibly sinking
She had not been held in this position two minute until she became unconserious. I let her heal
down. she gave there or four kasp, and died. It

only ones who have suffered loss from this cause Cows, ewes and sows are not exempt from such con greater, yercentage than any of the other domesticated amimals. Not that the writer considers that prevalent disorder) has brought about a thickening of the neck of the womb, practically closing it up and rendering many a vawable breeding animal a been written and vented and placed upon the market to enlighte the public and relieve their condition, and although many of the instruments possessed high merit, ye In conversation with Mr. O. A. Coates, of Both well, Ont., a successful and extensive stallion years to the study and practice of artificial impreg an expert at both locating the trouble and applying
the proper remedies) we learned that he now considers barrenness an almost unknown condition, running about whose dams failed to breed in th normal way. After the second or third failure, Mr Coates provided himself with the necessary appli practice has rendered the operation a compara tively simple one to him. What I wish more par ticularly to refer to is the introduction of the semen capsule put up for ordinary veterinary practice capsule put up for ordinary veterinary practice.
The heretofore barren mare or cow is carefully examined as to the exact condition of the os-uteri, A clean basin and small glass syringe is at hand, Fahr.), with warm water, also the of the blood ( 102 the cap of which has been ponctured with a pin or other small instrument to allow the escape of aiy When replaced. then the service of the male is the floor of the vagina into the basin, and carefully and quickly drawn into the small syringe and deposited into the capsule and top replaced, which is Care must be exercised in order to keep the outside f the capsule dry, as moisture renders it slippery and hard to direct. I believe the impregnator in every way reliable when carefully handled, but the in contact renders it more unsafe than the above tescribed method.
In case of a stallion or bull being overrun at the escaping semen from the stallion or mare when an independent mare is at hand at the proper moment, and impregnate, the two subjects at one service. With cows this may be more difficult; yet, in the with successs. The after-treatment should in no way differ
from impregnation obtained by natural methods.

## Larger Clydesdales Wanted

 SIR,-Mr. David Burns' letter in your last issue, on on Pasture," is a timely and practicalone, and from which very little ex-
cention can be tok ception can be taken. His statement the present day are becoming finer and smaller and taking too long to mature requires more than a passing notice, as this is unfortunately too
true, and it is just possible that in breeding may have done its share and carelessness played itspart. However, my belief is that the craze of late size and weight, has been the principal cause, until to-day we have plenty of animals weighing from 12 to 14 cwt., but few reaching 16 cwt.
or more. This is to be deplored, as or more. This is to be deplored, as
the latter class are worth almost anything the breeder or farmer may ask or them.
What
n outcross such as the Shire suing gested by Mr. Burns, or quietly drift
ing back to the use of such stallions somewhat rougher though of $2 \bar{y}$ years ago-larger and The Clydesdale of to-day has all characteristics of the heavy horse, excent useful and size, but I would hesitate long before using any
such cross as the Shire, especially such stallions such cross as the Shire, especially such stallions as
have been imported into Canada. I would urge think less of quality and go more for the stronger even if rougher, pure-bred Clydesdale stallions. We should not longer hesitate, as the difference in price ocween the medium and heavy weight is too great Ontario Co., Ont. Wm. smith.
Raising Foal on Cow's Milk --- Cure for Sprain.
raising a colt by hand, and I don, AdVocatkabout advice given. I will now give you my experience with one which is now just one and a half months
old. Its mother never got up after foaling. I feed old Its mother never got up after foaling. I feed
it six times a day on cow's milk. (cold), without any water. I sweetened the milk with maple syrup for a while. I used about one gallon of syrup, and
then weaned it from that. The syrup is to then weaned it from that. The syrup is to regu-
late its lowels. If too loose give it a little lees you see it needs it. It is doing just as well as it would on its mother. It is now just as well as it
little hay. I keep it in all the time, either in a box little haty. I keep it in all the time, either in a box
stall or in the yard. It has a small rupture at the
navel. I would like to hnow if it onduany would like tor it. Thow if it would be better (ows milk cold with syrup, I have seen three or
four childron raised win it. The mother never Warmed the malk, and the dhe mother never
believe till he siw how well hardly




## A New Dairy Stock Barn in Course of

 Erection.The barn basement and frame represented by the accompanying illustration is on the 150 -acre dairy farm of Mr. J. A. James, Nilestown, near 60 feet wide, and butts against the 72 feet long by stone basement, which it becomes a did barn with of. The balsement walls of the new portion are of cement concrete, made from Thorold hydraulic cement. The walls are eight feet clear inside, and on account of the barn being on sloping ground average about twelve feet high outside. There was used in the construction of the walls 100 barrels of cement, 150 loads of gravel, and as many mall stones as the cement would take. It was built by four men in two and one-half weeks, and presents, both in our illustration and upon close The basement is divided single stalls and a row of box stalls, with rows feet passages behind the cows, and an eleven-foot feed passage, which leads through the old basement to cement silb beyond it. The entire floor is ters. The feed passage is to be mangers and gutthe floor where the cows stand, so that the side of the passage will form the back of the manger. supplied from a hydraulic ram. The windows, of which there are five on either side and three in the end, are each 5 ft . long by $2 \frac{1}{\mathrm{ft}}$. deep. either side of the 16 -ft. driveway. The mows on either side of the 16 -ft. driveway. The corner and
side posts are 16 ft . long and 10 x 10 in . square. The
 the peak of the roof will be 39 ft . from the barn
floor. The barn will wind floor. The barn will, when finished, be painted on
the outside and fitted on the inside with every

fort and support of the capital Asary for the comfort and support of the capital Ay

## Cleanliness in Dairying

To the Editor Farmer's Advocate :
A great deal has been written upon this subject, of place, judging from what I would not be out while taking in the milk at the College creamery It is not at all unusual to find all sorts of filthery in the bottom of a can, such as grounds, manure, etc. much longer if we expect to be able to compete with Dennark and other countries in the leading butter and cheese markets. We must educate the producer in order that he may fully realize the ing.
liness in handling milk, for the necessity of cleanis a liquid and will dissolve a the first is that milk foreign matter that finds its way into it. When this matter is once dissolved, no amount of strain ing can remove it.
Another reason
handling of milk would be that from the necessity of the case it is not the so-called unobjectionable kinds of dirt, that are sometimes distinguished as to the germ-laden dust and obnoxious odors of but cow-stable, as well as particles of dried manure hairs, and other minute particles, so apt to drop We must bear in mind th
itself that gives rise to so much trouble, but that it is the undesirable kinds of bacteria which enter the milk along with the dirt, as they exist in untold
numbers in these objectionable contributions. When the forage and bedding are contributions.
Whatled just before milking as is often the case with med just
have not made a special study of dairsing. a very objectionable kind of bacteriat (knowing as hery
dust. In addition to the sources referred to, it oftentimes happens that the unwashed hands of previously served a period of more esteemed ser vice, but now serves as a special garment for the smaller, though and milking the cows, furnishes general supply.
Again, we may find that good housewife or
domestic who has not learned the superiority good brush to the much-used dishrag has been unable to remove all the slimy substance that ply of bacteria sufficient for an undesirable a supis in this way preserved. Not only is milk liable to contamination from the above-mentioned sources, but it is of such composition that when once seeded the bacteria can neither be skimmed off nor
strained out, but are there to stay, as it furnishes temperature, moisture and food supply so admir ably adapted to their growth and increase that under these favorable conditions they multiply at
an inconceivable rate of rapidity. This increase in an inconceivable rate of rapidity. This increase in
undesirable bacteria very materially affects the keeping quality of the milk, thus greatly short ening the time in which it, can be put upon the milk is to be usparently for the manufacture of butter cheese, the presence of these germs will prevent proper ripening of the cream, thus making it impossible for the buttermaker to secure that In the production of cheese they produce gassy floating curds, which cause the cheese to be spongy and "pinholey.
After these things have been considered, there
is yet the influence that uncleanliness mat is yet the influence that uncleanliness may exert products, and also as regards securing the best price for the article offered for sale. As regards milk is not only undesirable, but positively dapure ous, from the disease germs that are likely to abound wherever there is dirt, filth or decay. The milk may not only serve as a means of conveying the germs of such dis-
eases as typhoid fever, tuberculosis,
and and numerous other virulent diseases, but the decomposition that is
set up in the milk by the pun set up in the milk by the putrefactive bacteria ${ }^{+}$may produce in milk or its
products toxic compounds that are extremely poisonous, and which often produce sickness or even fatal results.
This form of poison, as well This form of poison, as well as
various other troubles, develops in various other troubles, develops in
cheese also, and is, like other cheese - diseases, supposed to be the outcome In butter, one of the most annoying effects of undesirable bacteria is
the earlier development of butyric acid and the consequent rancidity
of the butter. From some of the butter. From some expericreamery in regard to the College qualities of butter made from cream that had been separated from milk
which had been exposed to unfavorable conditions that are so frequently to be met with, and other cream that
was free from of bacteria, of bacteria
uncleanly uncleanly conditions firmly convinced kinds by any authorancidity in butter than is indy reject. I do not hesitate I have read upon that subif more thorough cleanliness was rigidly praction reduction in the butter upon the market the sufficient to silence tht of rancid butter would be garine and other imitation champions of oleomar-
 packing corpy that these products of in persuadbutter as an article of foold be allowed to supplant better keeping qualities. While it is por of their ers, to improve the quality of pure culture start milk that has been poorly cared for, I think foum milk can be made to produce the vey which pod or cheese. We must also bear in mind that bhile with reluctance at mants purchase the poor butter to the producer, they are eagerly than is profitable very best, and will often pay from half for the one cent a pound above market quotations to ustomers who can alway market quotations to
very finest article. WV. J. KENNED them with the
Iowa ery finest article. IV. J. KenNemy them B. With the Ag.
Iowa Agricultural College.

To Secure Better Milk from Careless Patrons.
The Produce Revien, in its effort to help cream to take better care of their milk, asked a patrons subject. Among the many suggestion upon the spondents, we cull the fonlowing, all of which may
be called parts of the argumentatice or persugive 1. Secure the confidence of patrons by being at
ath times courteons. genteel, and friendly to all,
and dealing withowitit hennest?
2. Be sure to make your creamery a pattern of for cleanliness on their part will appear ridiculous. 3. Prove to them that it is to their interest to possible, and that the finest goods cannot be made rom defective raw material. Explain the effect o payment. (But much more potent is this argument when you can explain that you cannot take poor 4 Set an justice to your other patrons.). for milk showing exceptional quality, say that which has been carefully strained, aerated and ored or pay different prices according to cleaned, as well as according to fat content: two grades are suggested.
(If it is poor milk, it may be dear at any price
for butter or cheese making.)
(Many suggestions were made which properly belong under this general head. They include the organization of patrons' clubs and holding educa ing the proper methods of caring for milk, as well as the proper care and feeding of the cows; fur nishing the patrons with instructive dairy literacreamery's requirements of quality and how the neet them.)
6. Encourage every patron to keep enough cows so that the item of milk will be large and importracting more attention to the necessity of knowl edge and care.
is to who is to who can produce the best average milk Undoubtedly all of these suggestions have in ractical work been found useful, and theoretically be used as far as possible in all cases, hut it will certainly be find that only when they are built up on a rowmution of rejection of poor milk will

## Good Butter.

its characteristics and how to make it, by prof. h. h. dean,
Good butter is made up of fine flavor, good grain, body and texture, even color, uniform and nild salting, and attractive appearance, combined with keeping quality, for the export trad for judging butter : Glavor and texture Salting.
Package.

$$
{ }_{\text {ne }}^{\text {Tota }}
$$

Fine Flavor depends upon the cow, the quality patron's part of the work. After the milk reaches the creamery, the main point which determines cream-ripening. The chief factors in creal of its ing are the "starter" or culture used, the temperature, the length of time ripened, and the temperof acid developed in the crean. The main points To be observed in proper ripening of cream are : to day by using pasteurized skim milk as a basis, to have the temperature such that the cream will ripen in 12 to 20 hours (though I consider if makers
could have perfect conditions a longer time would could have perfect conditions a longer time would
give better results), to check the acid by cooling or churning when it contains. 5 to 6 per cent. of acde, depending on the richness of the cream, and to be so as not to destroy fine flavor. Cream having 25 so as not to destroy fine flavor. Cream having
to 35 per cent. butter-fat is suitable for producing to 3 per cent. butter-fat is suitable for producing tion of caseous and sugar material for the ferments to work upon. More than 35 per cent. fat does not
contain enough flavoring material, while less than $2 \overline{5}$ per cent. contains too much, and needs to be watched carefully or it will become overripe, besid
ing.
ing. Grain and Texture are determined by the cow, the feed, the temperature of craam and water, and method of working. Some cows produce butter of which is too difficult to spread on bread in winter time. The quality of being suitable for breadspreading is a very important one in butter. Soft
foods tend to produce soft butter because foods tend to produce soft butter, because they
make an excess of the soft or oily fats. The higher the temperature at which the cream is churned above $55^{\circ}$ the softer will be the butter, especially
separator cream butter. Too much working and separator cream butter. Too much working and
working by friction tend to make batter "greasy." working by friction tend tor wake hatwer greasy pressure, is best suited to preserve "grain" in
butter. Soft butter may be temporcerily hardened with cold water when washing, but it is not a permanent remedy. The temperature at which
butter is stored also affects its body and texture. 1.There is a growing demand for pale-colored and lightly-salted butter. Too many Canadians are
spoiling their butter for fancy trade by going to
marough mixture of the salt with the butter is the cold sometimes causes "streaks" or "wottles." Fine salt, at the rate of $\frac{1}{2}$ to $\frac{10}{4} \mathrm{oz}$. per pound butter, suits the Canadian trade. Less than $\frac{1}{2}$ oz. is desirable for British markets.
The most suitable package for export is the parchment paper. Pack the butter and heavy porer top with parchment paper and a light salt paste. Boxes are better covered with canvas sacks pound print wrapped in parchment paper, $8 \times 11$, having our stamp

on each print
For keeping quality have perfect milk, ripen cream properly, churn at as low a temperature as work twice, pack firmly in tub or box, exclude the air, and keep at a temperature of $12^{\circ}$ to ${ }^{333^{\circ}}$ F.
Ontario Agricultaral College.
H. H.

r. Jas fietcher prof otto lugger, hugh m'kellat The professors hunting grasshopers in the Boissevain and
Deloraine district or Manioba . where the Rocky
Mountain locust conmmited considerable
danage to farm crops in 1898.

## Brooder House

In order to successfully raise early or winter chickens, at comfortable house is necessary. Manufacturers of poultry supplies are prepared to
furnish us with outdoor brooders, but these are scancely suitable for large numbers of chickens until the snow has gone and the weather has become warm enough for the chickens to spend some time in the open air. We find that a warm
house saves food and fuel. The season is fast approaching when we must begin planning and building if we intend to raise chickens during the There are ho
Chere are houses and houses, and each has some practiced hand at broiler-raising, the cost of the house is not so much to be considered as its suita-
bility and durability. The one I shall describe is suitable for a learner, as it is not expensive ind will last sufficiently long for the leginner to be transformed into a successful poultry-raiser, or to have decided that poultry-raising does not pay.
Ours, as shown in Fig. No, 1 , is constructed of unplaned, cheap quality of inch pine lumber for siding and roofing - two thicknesses, or double boarded, with one ply of tarred paper between. is quite windproof
The frame, as shown in Fig. No. 2, is composed of $2 x+$ in. scantling, excepting the collar beams, ing is 12 ft . wide by 20 ft . long. The north side is 6 ft. high, the south side 4 ft., with doulle pitch
roof, being 8 ft . high in the ridge, which is 4 ft . from the north wall, giving the largest slope to the south. The sills rest on the ground, and it is
banked on the outside and filled (preferably with gravel) level with the sills inside. The windows being low, the sunlight is thrown directly on the
floor, which is the best place for the liret in floor, which is the best place for the light in a
brooder house. Single windows are used Some poultrymen prefer the slope to the north, with the passage running along the south side. This must Shut the chickens further from the sunlight.
In Fig. No. 3 , the inside divisions
In the section marked 1 (12 ft. hy 6 ft .) we keep box stove and the foord supply. The pipe from the stove runs the full length of the homse, retaining
all of the heat. Wood being plentiful, we find the stove furnishes plenty of hoat after the first fow
days of ". chickenhood." so that the hrooder lamp can be put out during the day I In seetion 2 (which
is $9 \times 1$ ft., a brooder, marked B, is kept which will

p.n will always contain the latest hatches When three weeks old they are moved into pen 3 ( $9 \times 5 \mathrm{ft}$ ) Which is provided with a warm hover, marked $H$. requires no lamp. When a thind lot is hatched, the first are moved into pen 4, which extends the full width of the house, being 12 ft . long and 5
wide. When the fourth hatched the first is ready for market, and should weigh between two and a half and three pounds to the pair. Some broiler-raisers succeed in getting them to weigh four poundsperpairateightweeksold.
The divisions between the pens should be of netting, and a ventilating shaft may be run from the floor through the roof. We have a small door leading from division 4, so that the older chickens breeders put one hundred chickens in each division instead of fifty. In that case I think the first compartment, marked 2, and the brooder, shoutd be
divided lengthwise in order to avoid overcrowding of the very young chickens.

## Pure Culture Starters.

Dear Sir,-I would like to draw the attention of owners and patrons of creamueries and cheese tory to the creameries and cheese factories throughout the Province.
be of circular contains information which will states service to cheese and butter makers. It also them at a nominal cost with pure culture to furnish and butter making.
for these starters, more cheese than butter startens having been asked for. There can ontter starters reasons why this opportunity is not heing more consider that their butter Either the buttermakers flavor or keeping quality cannot be improved in culture advantages derived from the use of pure culture starters.
have not been able some information to those who subject, I have made a few extracts frion to the recently been. Conn, of Storrs, Conn.. who has methods been inspecting the Eurorean dairy America upon the perhaps the highest authority in butter, his opinions may induce patron of favor in to make a further study of the question.
extracts from prof. CONN's report, "It has been proved that the quality of the prodparticular considerable degree dependent upon the cream. the practical application of them has not been very widely extended in any European country except " In Denmark the use of pure cultures has be come very common. It is stated that over 95 per country at the present time is made by the aking of artificial cultures used in cream ripening. This percentage is surprising, and conveys a very great profession for the world. Danish butter head of the the highest price, and has the highest reputation of formity the use of pures adopt with practical uniinference to be drawn is that the use of pure cul.

## vantag

"The conclusions of thé Danish Association of Buttermakers is given as follows: 'Butter made with pure cultures is almost always better this is not always the case, and while it is true that some samples of butter made without pure cultures rank very high, there types of butter, while the butter made of the other types of butter, while the butter made by pure cul-
tures is of uniform grade. There has been since the introduction of pure cultures a noticeable and almost universal improvement in the grade of Danish nethod of the use of pure cultures in lesurs of this of course, satisfactory, or the method would not be
so widely used. so widely used.
" It is somewhat more expensive than to make and we may be sure that if the result were not satisfactory the process would not have been adopted in over 95 per cent. of the creameries.' identical with those used in Denmark latory are proper care and management should yield equally
good results. Patrons should ascertain if their makers are obtaining the highest price for their quiries as to the cause of the lower price In incases out of ten the fault will be found in the flavor; that is, it is the result of bad or no starters, or of tainted milk
are made use of in the production of organisms tured article, such as in breadmaking, brewing, etc., those establishments which use, the pure
culture system are superseding those which adhere cuiture system are supersedin
to the old, unreliable methods
theory. It is pure culture method is not a mere scientific theory. It is nothing less than a businesslike method of producing a standard and uniform
article. No man expects to obtain a clean crop wheat if he sows seed which contains half a dozen kinds of seed, and he can no more reasonably expect to obtain butter or cheese with a uniform bacteria.

The Canadian cheese has obtained the position it now holds in the British market because in its sound business principles have kennowledge and ent the Farmers' Institutes in the States, and the dairy associations in Australia, New Zealand, and the States, are taking up the subject of dairy bacin this country. It is especically than is being done the efforts of cold storage are being so closely watched by the British buyers, that everything that croducts should be taken advantage of our food fullest extent.
It must no
It must not be supposed that pure starters will of the process of buttermaking. Milk or creart cannot be made to any injurious bacterial change any treatment. The greatest benefit can be deived from the use of pure cultures only when the in the starter. This, as a rule, necessitates pasteurzing the cream. However, great improvementscarbe made by taking precautions as to cleanliness handling the milk, the starter being added while


QUESTIONS AND ANSWERS.

## Yeterinary.

laminitis (FOUNDER)
V. R. Caron, Altai:- - I have a driving horse
Int year. About six week ago was fed on wheat sheaves.
Got lame on front feet; was turned for two weeks, then driven nineteen miles. Since
then has been a cripple, lout is getter hetter. Have poulticed his feet and kept him in wet pasture field. advise me for best treatment."
(Poulticing the feet and kee
pasture field was good treatment. Would advise you to have the feet shod with heavy, well-fitted,
ordinary shoes without caulks. dine blister around the coronet of each foot a caritharides, three drams; ; vaseline, two ouncest : Kan-
the feet moist either by bruised meal poultice or allowing the horse to graze in wet pasture. The
animal should have very moderate exercise every
daty. animal should have very moderate
day. IDo not blecd the feet.)


degree of certainty as to the true nature of the ailment. I would, however, advise you to prepare the animal for physic by feeding exclusively on minister the following. Barbad hours, and then adcalomel, one dram ; solid Barbadoes aloes, Six drams; dram; ground ginger, two drams; soap, sufficient o form a ball. After the purgative has ceased to week: Nux vomica, pulv. half a morning in food for one wetash and bicarbonate of soda, of each two drams.]

SUbSCRIbEROBABLy Rheumatism,
seven years old. Went lame in February in off hind leg. A few days later noticed a hollow place all right. He then went the same way with the other leg. Blistered that also. The blistering seemed to raise the muscles, but the horse is not up his hind legs in the stable. Did for several weeks when blistering not work him him but little for the spring. He feeds well, and appears all right when run to pasture, but sweats condition as he should with the feed he consum Kindly advise what shall be done, and oblige?"
IPrepare the horse for a purgative, and give
follows: Barbadoes aloes, one ounce; ground ginger, two drams; treacle or soap, sufficient to give, morning and evening, in food for two weeks, Salicylate of soda, one dram ; powdered gentian,
two drams.

> PIGS WITH SKIN ERUPTION.

Slease answer the following question. Would you acre of tares and an acre of rape in the same field. wheek I noticed them been feeding on them for a them are very bad-the skin is all cracked Some of their backs. I think it must be the rape that is causing the trouble. Will it do them any harm? the white ones that are affected yet. All the grain they get is eorn meal. 1. Is there anything that me how to mix fish oil and coal oil for keeping flies off -cattle ?
[1. In an
[1. In answer to yours of the 14th inst. re pigs, I
would say that the trouble certainly is not due to the rape. I cannot speak so confidently about the pasturin I cannot call to mind instances of pigs cause a skin such. Still, I do not think it would time. The condition is probably due to high feed the heat of the sun hastened its deut, though White hogs are liable to sunburn when first turned. out in hot weather. I would advise the following parts Epsom salts and sulphur, say from food, equal tablespoonfuls for each pig, according to size. Dress the affected parts with raw linseed oil, forty parts ; carbolic acid, one part. Dress twice daily. J. H. REED, V. S.
2. See Farmer's Advocate, July 20th issue,
2. 387 .

## Miscellaneous.

We have decided Notice.
to legal quavestions, many of which we find are not of general interest. It is really no part of the legitimate work of an agricultural paper, and is not, as a rule, adopted by the best papers, of this class; besides, our space has been pretty heavily taxed
with questions upon agricultural and livestock, and we desire to encourage this feature by giving more prompt answers than we have been able to do in the past on account of the lange amount of matter friends, we trust, will take kindly this announceSick ducks.
Subsicriber, Oxford Co., Ont. ducks about half grown. They were healthy untit around and in a few hours die. They would stagger quarts corn meal and bran, equal parts, three times extray. clean. (ivey had plenty of water, though not
|I think the trouble is caused from a lack of grit or gravel and shade. Ducks require shade from
the sun, for if it is the sun, for if it is not supplied they will somewill sometimes die from in a few hours die. They handful of grit into every two quarts of feed. without the grit, some always died as above
would prefer one part shorts in the place of two parts lran. If the ducke are for hreeding pur
poses, less corn meal woold he advisable, as this
food is very fattening. Whe the ful food is very fattening. We tare feeding our ducks
as follows: Eyual parte, hy measure of han,
middlings and corn meal, which is mixed dry,
then moistened with skin
 also give them all the treen feed the will eat.
Fresh water is given at crey feed, which is five
times daily. No water is allowed for the ducks to
swim in. I would prefer clean water to a filthy Ontario Agricultural College Manar Poultry Dept.
practical pointers about bee frames. G. L. L., Prescott Co., Ont :- "I hived a swarm them and found that they had connected examined by building their combs "zigzagging" from end to end of the same, and that, when attempting to separate them with a knife, the combs full of honey, a heap, and the following day the of the hive in the woods. It was again caught and hived in a new hive, and in two days examined and found that the comb having fallen removed, owing to pieces of that while the bees were buildingtom bars, and top downward, they were also building it from the
"1. What is the matter with my frames?
tion sheets? "3. Do you suppose they were nearly swarmin an upright in the middle. Will I require found with for these spaces, which " 5 . How soon should the super be put on after the swarm was caught
is the probable can supplies be procured, and what and foundation [1. As far as the circumstances stated are con frames. The combs dropped in matter with your because, when you attempted to separate the instanc you had to do considerable cutting and breaking of the combs, which must have partially destroyed their support, and being tender, because new and heavy
with honey, pollen and brood, they fell. In the but I case, I am not sure what made the combs fall However, if you had used good brood overheated. running 5 or 6 sq. ft. to the pound, wired into the and had your hive been painted white top bars from the sun and had an entrance clear across the front $\frac{1}{2}$ to $\frac{3}{3}$ inch deep, your combs would not have your hive had stood level, the bees would have built their combs straight and even in the frames hang plumb, and to nse somsary for the frames to guide if you wish your bees to build a foundation straight and even in the frames. A beginner combs use full sheets in all his frames, A both brood and surplus. A success can, in many cases, be made by fastened to the center of the top bars of the brood frames; but only persons of some considerable ex. perience should attempt this.
3. No. A swarm, for vari
leave its hive a day or so after being pus, will often leave its hive a day or so after being put into it, and
especially if disturbed by the breaking down of its combs, as described. It is not often, however, that they will leave it as late as ten days after, being
hived, but such cases are by no means under such circumstances as mo mentioned. 4. Yes.
5. The same day, as soon as hived.

Chrysler, Chatham, Ont.; Goold, Shapley of W. A. Chrysler, Chatham, Ont.; Goold, Shapley \& Muir Co., and for the Heddon or case system of handling bees; such as you mention, would cost from about $\$ 7$ to $\$ 9$; a smoker, $\$ 1$ to $\$ 1 .(3)$; brood foundation, 45 c . to lb. per lb., and section foundation, 5 5.c. to 60 c . per Lincoln, Co., Ont.l
E. B. Pitting a bulle for show.
would be the best ration for my qwenty-months Ayrshire bull to fit him for showing this fall?"
|Regarding the fitting the fall shows, unless he is in fairly grood shll for now there is little enough time to put a showrin bloom on him. The idea is not so much to get him brightness of eye and mellowness thrifty, with the orightness of eye and mellowness of hair and skin
of a horse ready. for a race. To this end he should not have heavy grain-feeding, nor such as could meal at all. While a number of suitable combina
tions of foods could be made we corn as grain one part each of pea choud recommend and two parts. each of oat chop and wheat cake This is a safe food, and can be fed liberally after he large enough to mow, ind to it. Aftermath clover of hours in the sum, then run it through a couple cutter, would do well to mix the chop with, from six to eight yuarts of the chop per day after a couple of weeks feeding. He should be kept in allowed out in a in a cotdock, darkened place, and rom other stock. so that he will remain quiet and
contented. Fresh water ami sual before him constantly, and he should have liberal his skino right Mith binsh and Hlamel, so as to put natural inape and his horns cleaned up before the
show, if the hull is of typical Ayrshire form and
his nown has never heen stonted, he should with the above
cultivation and irmuing of rasipberbies.
E. S., Oxford Co., Ont.:-" Will you kindly give of the raspberry?"
[A raspberry plantation should be set in spring as early as there is warmth in the land. The
stock set out should be vigoron suekers previous year's growth, taken from productive plots of good variety. The land to receive the plants should be prepared in the previous autumn by deep and thorough cultivation and liberal manuring. The plants should be set in rows six plapart and four feet apart in the rows. The length at planting. The ground between the plat in should be kept cultivated on the surface during the damp straw to keep down the weeds and pred with moisture. The following spring the canes may be tied up to stakes loosely with soft string or strips of sary. The ground should be cultivated as necesthe previous season, or a mulch may be applied soo after the fruit is set on the canes. After the fruit has been harvested, the old wood may be removed and the latter is probably the better fowing spring tops of the canes should be cut back in the s. The leaving them about three feet high. They will thus grow stronger, and will be less liable to fall down canes each spring to four or five vigorous canes the hill or group. The soil should be kept in rich condition, and when the plantation shows an inclina some other cropgrown on the should be set out and By renewing the plot in this way every five or six years, good results should be realized, if general, in-

Leaking given to all the details of the work.
J. S. MCG HAER TANK-OX-EYED DAISY. large elevated tank of 2 -inch pine 1 I I built a mer, and it leaks ever since. 1 pine plank last sum ocate then lime, and failed. Now, I hope the AD difficulty. 2. What is the best help me out of the [1. If the plank?"" ere properly sized and put together, with paint the joints and firmly hooped, no water should get It is not an easy matter to prescribe in such a case without some knowledge of the cause of the leak. We would recommend, cause of that the water be let out, the tank allowed to cover all the cracks and seams with hot pitch. It may be necessary to stuff tarred oakum into the larger crevices.
E. The wild daisy, or ox-eyed daisy (Leucanthemum vulgare, is a simple perennial which
grows from one to two feet high, bearing large
yellow-centered flowers with white yellow-centered fo towers with white rays. It
infests all kinds of crops, and it also grows infests all kinds of crops, and it also grows
where the land is not cultivated, as in permanent pastures and in by-places generally. It is most meadows, and especially as they grow older, since the roots of the daisies then become much intermeans of its seeds, the crops. It is frequently distributed among the seeds of timothy and clover. As it
infests more particularly grass land, it is well to infests more particularly grass land, it is well to
drop meadows out of the rotation, as far as possible drop meadows out of the rotation, as far as possible,
until infested fields have been dealt with. In the case of meadow land infested with the weed, pas-
ture it until the middte of June, then plow it deanly, and sow with rape in drills, taking pains to cul crop, and the rape will come in for fall pasture for cattle or sheep. It may be necessary to follow the rape crop with a crop of corn or roots that would a grain field, plow the summer. In dealing with harvest, and again deeply just before winter In the interval give the soil two or more harrowings spring follow this preparation germinate. In the spring follow this preparation with a hoed crop or crop. Durng the time of farming without mead ow, corn, milet and early-cut rye or oats may be the germination of the weed seeds in to facilitate then destroy the young plants before they produce seed. The plans we have mentioned are such as will surely destroy the weeds if they can be carried as well as some others that may be quite as effective We invite those of our readers who have clective. fields of ox-eyed daisies to write us fully how they
did it, for the benefit of many anxious readers. strayed lice
On a recent date a small glass vial was received
at the FARMER'ADocite, containing a number very minute vermin. Noletter has yet been received concerning the consignment, but we judge they were
taken from the bodies of live stock, of which class we cannot determine. If our surmise is correct, we
would recommend that the infested animal be given repeated washings with one or other of the
commercial dip- adertised in our cothmns. The
consignor would confer a favor by writing us of the

Unealthy peach trees - tellows.
G. R. H., Wentworth Co., Ont.:-"I write to

They have been planted three years ang peach trees. very rapid growth, but I netice this have made are not as healthy as should be. In working around them I notice at the surface of the groung a jellylike substance has oozed out of the trunk in some cases to the amount of a small teacupful or so. Is it the yellows? Please describe fully the yellows. There is a good showing of fruit on these trees at this date. Very little curl leaf. An answer to the above through your valuable paper the Advocate, will be prized.
[In reply to your correspondent's question re garding his peach trees, 1 may say it is difficult to tell from the information he has given just what is he matter, but there are several things which Partial winter-killing or ing which he speaks of have this effect. If the gimming oce bark would up on the tree it might be due to peach ret higher fructigena). However if the gummingocisulu the ground it is more likely to be due to injur the bark. In a bulletin on "Peach Cultere" "by Prof Craig, issued by the Experimental Farms, the author gives Bailey's description of yellows follows :-
rees ellows is a distinct disease. It attacks peach seeming to ages and in all conditions of vigor, thrifty. It is incurable, and its termination is "lways fatal.
means of communicatie from tree to tree. The spread through the soil, it does not originate in the flower, and it is probably conveyed from flower to of pruning tools.
the red-spotted character ef symptom of yellows is commonly marked by red lines fruit. The flesh is the spots. These peaches generally ripen pre maturely, and in the second year they are usually maller and often more fuzzy than the normal in trees not in fruit, is the tip growth. The first short growth starting from the upper or terminal buds, usually late in the season, and is characterstand at nearly right angles to the shonl leaves, which these tips appear late in autumn, after the have fallen, or in spring before normal growth begins. They are often first seen upon the ends of pronounced, and then only a practiced detect it. "The third mark of the disease is the pushing. out of. slender, stiff-leaved, yellowish shoots from In pronounced cases, or when the tree isge limbs. die, these shoots may branch into close, bunchy tufts. These symptoms are frequently wholly course of the disease State throughout the entire . In its final sta
small and slender growth of all new marked by narrow yellow or reddish foliage, and occasionally by a great profusion of slender and branchy
growths in the center of the tree.
"As a rule, vellows trees die in "As a rule, yellows trees die in
from the first visible attack.
The yellow and stunted condition following neglect or the work of borers (both of the common
borer and the pinhole borer) is often mistaken for yellows.
branch-is the only of all affected trees-root and at bay. This work should beeping the disease ously and systematically, and with the full support of the whole community.
which yellows be set in the very places from entire safety. The disease is readily com, with cated to nursery stock by affected buds, even by
buds from those branches of affected trees which do not show any signs of the yellows.
xpected to propagate the diseace" viable, may be Central Experimental Farm, Ottawal Horticulturist. - Virgin heiree givingal.
(.. A. M., York Co., Ont.: "In my herd is a been sucked by self or other cattle. Nhich has not
evor milked at has ever milked at her, and she is not in calf, yet she is
making bag. Her milk is rich-looking ind good
color. What would calse would you advise me to do?" herds for heifers to develop udders and give milk for months before calving. A number of such cases
have conne beneath our personal notice, but we cannod determine the cause of the premature lactation
period. We have it on good anthority that :a
heifer belonging to ome of tho subscribers give milk that produced 2ow momots of advere milkingt the haifer, first calf. Whe woung her when
the moper time connes. She will likely develop

Chatty Stock Letter from Chicago
Following table shows current and comparative live stock
prices:


AN AFRICAN MILLIONAIRE.
episodes in the life of the ileustrious colonel clay.

by grant allen.

You're a murderer, sir!'’
Colonel Cor die, here!" his side, was all sweet reasonableness, Now, my deer sir," he expostulated, one hand held palm
outwar, do your hink it probable would kill the those
that lays the golden egks with solittle compunction?


 you on where you think you are going to gain some ad vantage
over others and by dexteruasl) playing upo your love of a
good bargain- your innate desire to best somebody else good bargain - your innate desire lo beat somenody else - I
succeed in besting you. There, sir, you have the philosophy of He bowed and raise
 he answered, ${ }^{2}$ I 1 called y bland smile. "Sir Charles Vandrift,"
golden eggs. You may the goose that lays the golen eggy you are may have thought the metaphor a rude
one. But you are, you know, in certain relations.

site upon capitalists a am a Robin Hood of my age, and,
looking upon you as anceptionall bad form of millionaire,
as well as an exceptionaly easy form of pigeon for a man of
my type and talents to pluck, Ihave, so to speak taken an my as well as an exceptionally easy form of pigeon for a man of
my type and talents to pluck, I have, so to speak, taken ap my
abode upon you.t. Charles criod, writhing,
"The Colonel waved
" Because Ilore the game,"
abecause lore the game." he answered, withall a relish, white. ."ad
also because the more prepared you are beforehand the greater
credit credit and amusement is there in besting you. Well, new,
ta-ta once nore! am wasting valuable tume. I might be
 To. Ten per cent. is more usua! !"
de rowed away and left us alo on the island
flung himself on the bare rock in a wild atecess of thespontency
As for myesif, climbed with some diticult wo the top of tic
clift landwand and tried to sou As for myself, I climbed with some dititiculty to the top of tue
cliff, Jandward, and tried to make sifnal of distress with my
handkerchief to some passer-by on the mainland. handkerchief o some passer-by on the mainland.
The evening came on slowly. Puttins TTe evening came on slowly. Puthins and cormorants
circled around our heads in the gray of twilight cmarles
suggested that they might even swoop down
 solitude. About eleven o'clock wé heard human voices. "A Boat

 A lady and gentleman had sent them, they said, to return
 sitting up. It was toolate, of course, to do muly. that nitht in the way of apprehending the miscreants, though Charles in-
sisted upon dispacthing a groom, with a telegram for the
police at Inverues, to Fowis. police at Inverness, to Fowlis.
Nothing came of
Nothing came of it all., A message awaited us from Lord
Craig-Eilachie, to be sure, saying chat his on had not left
Gien-killachie Lodge, while, research the next day and later Glen-Ellachie Lodge, while research the next day and later letter. An empty envelope alone had arriven received our house
and the postal authorite thad been engared, mean while, with
their usual lightuint speed in in ingat

 Bnt the oddest part of it all was that froun the moment
Ehat
those two people landed at Niggarey and tord the fisherman there were some gentemen stranded on Seamews is sland, all
trace of then vanished. At no station along the line could we
gain any news of them. It was a most singular and insoluble mystery,
Chates lived in hopes of catching his man in London.
But for my part felt there was a show of reatoon


## The erfsode of the german profesior.  flightest attention to poetry, and that was when I happicned Fhll many a gem of purest ray serene The dark. unfathomed caves of ocean bear:


sou,"ir Adolphus ran his arm throngh Charles most ami. "Come along with me to the A theneum," he went on, in
the same stentorian voice, "nnd In tell You all about it.
Most interesting discovery. Makes diamonds cheap as dirt Calculated to supersede South Africa altogether. nothing else powsibte. Sirself to be dragged along. There was chleiermacher, hae chemisiry of gems, had lately invented, or claimed to
have invented, system for artiticilly producing diamonds,
which had yielded most surprising and unexceptionable results. Charles' lip curled slightly. "rve heard of it before.
Very inferior stones, quite smail and worthless, produced at Yery inferior, and even then vot worth lookingsat.
mine Adolphus produced a small cut gem fromi Sir Adolphs produced a small cut gem trom his pocket.

- How, that for the first water h" he inquired, passing it
across, with a broad smile, to the sceptic. "Made under my cross, with a brope smile, to the sceptic. "Made under my
own eves-and quite inexpensiels.
Charles examined it close Charles examined it close, stopping short against the rail-
ings in St. James Square took at it with his pocket lens.
There wa no denyin the truth. It was a capital small gem of the finest quality. lous, "Where, , my dear sir? at Jenne t"
 Gray a and about to be exhibited by the President himelf at a
meeting of Fellows of the Royal Society,
Charles drew a long breath.

ac "Here in London," Sir Adolphus replied. "He's staying
at my house, and he sals hell be glad to show his experiments at my house, and he sals hell be glad tophow his experiments
to any body scientificall in interested in diamonds We propose
to have demonstration of the process to-night at Lancaster
 function! Could he possibly stay awa? "Charles clutched a the
enemy's arm with a nervous grip. "Look here, Cordery," he
sid said, quivering, " this is a question affecting very important
Interestse Dont do anything rashr. TDont do anything foolish.
Remember that Shares may rise or fall "n this. Remember that Shares may rise or fall on this,",
with Ithould think it very probable,."Sir Adolphus replied,
with callous indifference of the mere man of science to witt the callous i
financial suffering.
Sir Charlos
Sir Charles was bland, but peremptory. "Now, observe,"
he said, argrave responsibility rests on your shoulders,
must not ask in any must not ask in any number of outsiders to witness these
experiments I will come myself 1 thidenged in dine out
but I can contract an indisposition and I should advise you to ask Mosenheimer and, sasy young I Phipsould advise you
toove all,
dontt blab; for Heaven's sake let there be no premature gos.
sin." Schleiermacherkeeping the matter a profound secret, at
ousily Which is why," Charles said, in his severest tone, ". yo
bawled it out at the every top of your voice in Piccadilly!
However, before nightfall every Charles' satisfaction, and off we went to Lancaster Gate, with a profornd expectatg.
nuthing worth seeing.
from his long thair builde-boking man, once tall, I should say,
dervo tion to stad and bent with long

 us some goot and sadisfactory tiamonds
He brought out hic
 how to crsstallize it rat was all ze secret." The men of
science cexamined the pots and pans carefulls. Then he put in
a certain number of a certain number of raw materials, thd went to work with
ostentatious opennewhere There were thre distinct procestes,
and the made two stones by each simultaneously pin and he made two stones by each simultanisously. In three-
quarters of an honr (and he smiled sardonicalis) he could
produce a diamond worth , prounce a diamond worth, at current prices, two hundred
pounds sterling: "As you shall now see me berform," he re
marked marked, " viz zis simple abbaradus",
them. Ahe Ater thill iizzeed and fumied.
them. After three-quarters of an hour the Profsessor, stirred
similing, began to empty the an
 the midit of each pan, a smatl white pebble num water-
worn apparently, but slightly rough and wart-like on the sur-
face.
They were handed round for inspection. Rough and uncut
as they stood, it was, of course, imposisible to judge mot as they stood, was, of course, impossibie to judge of their
value. But one thing was certain. The men of science had
been watching close at the first, and were sure Herr Schleie been watching close at the first, and were sure Herr Sche seier
macher had not put the stones in ; they were keen at the
withdrawal, nand werc eqtoly withdrawal, and were equally sure he had taken them ho
estly, out of the panniking now distribute zem," the Professor remarked in
casun ill

 as representing science. You will haft zent cut and rebort
upon zon in due gourse. We meet again at zis blace ze day
after do-morrow, atter do-morrow. Charle walke homeward with the Professor. He sound-
en him gently he to the sum required, should need arise, to
 suppress his discovery. The German was immorable. take
 Gin the appointed night Charles went back to Lancaster
Gate and could not fail to enark, with a strange air of com-
pletend painful preoccupation. The diamonds were produced. with one surface of each
slighty scored br the ent tro. oas to thow the water. Strange
to sily. each of the three diamonds siven to the threc diamond kinis, turned out to be anmot inferior and valueless stone
while cach of the three entrusted to the care of the scientific




for the present till he himself, and a small, committtee of th an invelves the Professor's beautiful and ingenious procosess
aimsestigation and verification which the learned Professo himsilf both desired and suggested (Schleierranacher nodded
approval.) When that was done if the process stood the test
arther concenlment wuld be is approval.) When that was done, if the process stood the tes
further concealment would be absolutely futile The price of
diamonds mutst fall at once below that of paste, and any pro diamonds must fall at once below that of paste, and any prop
test on the part of the financial world would, of course, be useless.
Everybody applauded. It was an awkward moment, Sii
Charles bit his lip. Mosenheimer laoked glum. Young Phip son dropperl an expression which looked Ilum. Young Phip
after a sot transcribe. And
atted a solemn promise of deathlike secrecy the meeting sepa rated. noticed that my brother-in-law somewhat ostentatiously
avoided Mosenheimer at the door, and all the way to Mayfair he leaned back in his seat with close-set lips, never uttering a
syllable. billiard-room I I ventured to to ask himeve "Charles, will you ofload
 the public in the Clouldedorp Company, at such a moment
 noble. You will not save your awn personal Your conduct is
expenseof thests at the
At the same thime have put their trust in you."
 shares I hold, through Charles ${ }^{\prime}$ kind sell out to-morrow the fow
Golcondas."
 The eses of London will be upon us to-morrow If If soceretary.

 can't interfere with that. I I do not dictate own property. A
Chairman of the Golcondas, I am bound to see that the inter
 secretly, you are no longe my secretary; you receive forth-
with six instanty.," well, Charles," I answered, in a submissive voice though I debated with myself for a moment whether it would
 own mind, I am proud to say friendship and gratitude won. II
felt sure that, whether diamonds went up or down, Charles
Vandrith Vandrift wast whe sort of man who went up or down, Charles
the eome to the top in
him! I slept little that night, however. At breakfast Charles
also looked haggard and moody. He ordered the carriage
early early and drove straight into the City. Charles, impatient and
nervouse, jumped boock in Cheapside. wat and walked. I walked beside him. Near Wood Street aman we k kew casually sto ". What's all this about diamonds? Where are Cloetedorps to-
das ? Is it Golconda, or Queer Street " das Charles drow him, or Queerf Street ")
you," he andwered, with dip very stift. "Why, you were there Sourself," the man cried. "Lavt
night at Sir Adolpuse" Oh yee, it's all over the place
Schleiermacher of perfect diamonds-for sixpence apecee--as good as real-and
South Africa's ancient history. Theres a slump in Golcon-
das." atrocious. Near the Bank we disgusted. The man's manners were
able against a most respect"Ab, Sir Charles," he said, "you here? Well, this is
strange news, isn't it?" For my part, I advise you not to take it
too strange news, isint it for my part, I advise you not to take
too seriouslly. Your stock will go down, of course. like lead
this morning. But itlo rise to-10rrow, mark my words, and
fluctuate every hour till the disorow, ill the discovery's proved or disproved The general opinion was that Cloetedorns were doomed,
and that the sooner a man cleared out the less was he likely to
lose by it. Charles strode on like a general; but it was a Napoleon
brazenilg out his retreat fron Moscow. H1s mien was reso
lute. He disappeared at last intosther lute. He disappeared at last into the precincts of an office, Everybody long the City rang with Golcondas, Golcondas, warles stood firm ad a rock, and, so did his brokers "I don
want to sell.", he said, doggedly. .The whole thing is trumper
up. It's mere piece of tid up Its a mere piece of jugglery. For my own part, Ibuliev
profesor Schleernacher is deceived, or else is decei ving us.
His brokers. Finglemores, had only one
 He went hone that night more hararseade ane panic, "ll than
have ever seen him. Next day was as bad. The slump con
tinued, with sarying episodes. tinued, with varying episodes
The norning after, as if biracle, things righted then
selves of a sudden. While we were meaest, of a suardes received a telegram from wir Adoling what it
dery: Cor had The man is a fraud. Not Schleiermacher at all. Just
aboot hire. fomr Jena saying the Profesor knows nothing
Come round and see me.
Conionally to have caused you trouble
 Muset the share market for forty-eight mortal hours, hal
ruined a round dozen of wealthy operater apologized for it as one might apologize frat being ten now
lite for dinner!
Charles jumped into a hansom round to see him. How had he dared to introd and rushe the in
postor to oolid men as Professor Schleiernacher? Sir Adol phus shrugged his shoulders, The fellow har come an
int hite hed himiself as the great Jena chemist. He had lon
whd Whine hair and a stoop in the shoulders. What reason had he
for doubting his word? Besides. what object could the crea
turr have for this most extraordinary decoly ture hate for this most extraordinary deception\} Charle
knew only too well. It was clear it was done
diaund diamond market, and we realized too wate that thisturb the
had done it was. Colonel clan Doubtless, with his extratordinary sleight-of-hand, he had
substituted real diamonds for the shapeless mass that came
out of the out of the apparatus in the interval between handing th
pebbles round for inspection and distributing them piecemea
to the






## August 5, 18:9

## THE FARMER'S ADVOCATE

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My dear Children,--
I suppose you all felt very jolly when the ays began yonoolbooks of sight. It is wonderful how even the tiniest little tots talked of their "zaminations" in the little businesslike way. My little niece (aged six) told me yesterday that she wished the holidays were over because she had "nothing to do and was lways getting into mischief." What is the world days. Why, when I hear such complaints nowa never half long enough young the holidays were for "getting into mischief !" well, had to do. As to look out for that. We were too busy to think about such possibilities. I hope all this struggling out of you children. Study is very well in play place, but do manage to play often, not only in its All work and the year round. The old saying as true now as it prey makes Jack a dull boy," is cable than it used to be. I have just been reading about some little Irish It is a tiny train which their foy to amuse them. he made everything but the engine Whade-at least, dren are packed closely, sixteen can ride at once in the dear inttle open cars. The track is a quarter of a mile long, and there is a signal box, turntable, Of course, there are tickets for the passengers, and everything is done in first-class style. If a passenger gets on without a ticket, he is put off at
once. Another family of children, living in England,
also have a little train of their very own, even more perfect in its arrangements. It goes bridge. The engines are worked a tiny cantilever -steam would be rather too dangerous. Well, you are not likely to make a
grand as that, but perhaps you can do something to keep the holidays from being dreary. Let us this summer, then write and tell me all about can will give a prize for the best letter, and possibly second and third prizes if you deserve them. Sossibly the spelling. Remember, they must be dabout tions of play-real, busy, play-not lounging in hammock. If you haven't had any playtime, you can invent some. The events described may be quite imaginary, but they must be interesting, and picnic excursion, camping expedition, Alayhouse, or anything interesting and energetic may be deyour letters before the as you can. Send in all child under fifteen can compete. Neptember. Any fifteen and under, second prize for twelve and nd a certificate for ten and under. You must The writing and spelling will parent or teacher. awarding the prizes. Address to considered in
Your old friend- Cousin Dorothy.

## "An Eavesdropper."

Do you know why "Listeners never hear any
ood of themselves?" I think it is because anyon good of themselves?" I think it is because anyone
who has so little sense of honor as to spy upon another, and listen secretly to what is not iny upon
for his ears, will probably hear his described pretty openly if it is mentionn characte However, this listener is not likely to hear his devoted pair of lovers? Did you ever see a more sublimely indifferent to the world and its opinion. What do Jack and Jill care even though an eavesdropper in the shape of Peter may be just appear-
ing round the corner? He will soon stop their hilling and cooing, Iknow. Life isoon stop their his opinion, and he doesn't object in the least to his

A Thought for Every Day:

I on't let another lift the load
Your back wile menult to





Our Library Table.
"Many Cargoes.", W. W. Jacobs.-" A bunch outline and uniqueness of humor could scarcely surpassed. No general descriptions could do justice
to their droll wit, intensely delightful surprises intensely funny situations, and chosen as typical of the lot, as each one is typicalIn fact, it
the way of fiction difficult to think of anything in taking along on a holiday trip,", that this portion of a recent review we may add one who misses "holiday trip" or at homee, anymissed some big, big laughs. Wey Cargoes" has across such fresh, breezy humor for many a come day. Copp, Clark Co., Toronto, publishers. ray.-One seldom finds so many character studie in one novel. Of course the chief interer studies as an artist, in spite of difficulties whic way to fame down most men. A fine study-which would drag voice, makes Whitehouse, with the phenomena because not entirely faultless, and thus so much vohom one never than those beings of rare perfection with masterly skill, but it is in the ind in worked out ters that the chief charm lies. The ex-prize
ghter, George Cutler, the man of enormous muscle

days when heart, who loves to chat of the good old His shrewish mite of a wife (these giants generally yet thinks there never was is ever rating at him, foolish George. Old Leonard Whitehouse big, dreamy bookworm, with his fine nature and his learned quotations. It does one good to read about both these men. Then the two ponderously fat
men-meek Mr. Woodhall, and pompous men-meek Mr. Woodhall, and pompous Mr. Wad-
dell, whose "legs flourished underneath him as if they were proud of carrying a burden so distinguished!", The gaunt and humorous Solomon Solly, with the moist eye and pendulous lip. All these meet at the "Dancing Bear" inn is one of the choill est bits of humor in the whole book. Other characperhaps, more to do with the thread of who have, than those named, but they do not of the story prominently. A book indeed worth reading. Copp,
popular authonsa," Rosa Nouchette Cary.-This widely known, that it is difficult to to books, now have al ways a good purpose and generally deal with "ure; faults, however, which can be overcome who was being somewhat spoiled by charming and congenial surroundings; but who, at last, makes up her mind to retarn tc : home decidedly uncongenial prayer and self-conquest, Alison bravely gains for others and herself a victory full of happy results. The works of Mrs. Cary are not of the so-called
sensational type, but they are always interesting sensational type, but they are always interesting
as stories and always have an aim, which should
recommend them
 Wilcox.-To many readers, the poms of this anth-
oress are familiar: There is that in them which appeats strongly to us here int of of thought, strength
of purpose, and simplicity een we find and example of sublimute self-sacrifice, so complete, so, mothe, en amp that we almost (in our
should not have been! There are not many women love of her heart by making him think she chosen barded him as a friend; and this because he is loved Oy her friend, Helen, a delicate, almost dying girl. Our sympathies are so entirely with sweet and quite sure she was right, or, at least, we do not feel regretting that something did not turn up to alter story! ; The then we should have lost this exquisite must be read and its beauty digested "Maureen" poems in this book are all worth reading, and pos sess much charm. Ella Wheeler Wilcox has sounded the human heart to the core, and writes with
knowledge.

## Spanish Cream.

One pint milk and $\frac{1}{4}$ box gelatine heated together en together and added to the above. Take off as soon as it thickens. Stir in the whites of the eggs, beaten stiff. Flavor and pour into molds

## Jokes.

morsythe, allerrton pe y An English lady who went to make purchases in Jamaica,
accompanied hy her black maid, was ropentodly addressed by
the negro shopman aci mnan, wis.




contributed by f. w. adame, assa., n.-w. t.
A farmer's boy in Scotland was brought up, charged with
shing a girl into a millpond In pleading his case he said th



$a^{\text {' the same, }}$ I'm thinking you an' mell be clear noo!
Contributrd by ruth e. r. yord, smith's falls, ont
"he LaUGHS best wis The innocent elderly gentleman who meekly submits to "Witness the experience of fifty medical students", gnys.
the Chicaro Times.rerald, ", who indulged in jollification and
thou tht themselve very had taken were holding high carnivaculin a certain smoker they had taken possession of. Among the passerngers smoker an they
man
marion nice old man- with white mountache and silk hat. As
 unfortunate passenger was lifted over heads end fmaliy tossed The guards told the students to cease their rough behavior
or leave the train. The admonition was unheeded. The fun
grew more hilarious, untill the old mana with

 At eight o"clock that night a young man came meekly to
the central police station and reported an old man with white the central police station and reported an old man with white
moustache, silk hat, ete. had picked the pockets oh some
students one the train, securing four gold watches and a few
pocketbooks. Chief. "Please keep it out of the papers," said he, as he tipped the A WITTICISM.
Not long ago a bishop was a guest at a dinner party in B-
" By the way, said one of the guests, a woman noted
witty witty remarks, "do you know that thero are times when it is
dangerous o enter an Episcopal church?" dignity, straightening himself in his chair. bishop with great dignity, straightening himself in his chair. "That cannot be," said the
"That cannot be," said the bishop. " Pray explain, madam
ing desky," siaid she, ., it is when there is a canon mit ing dask, a big gun in the pulpit, when the bishop is the read
his clergy, the choir murdering the anthem, and the organist
trying to drown the choir.) A hearty laugh went the round of the table at the bishop's
expense, and he acknowledged that at a suche timee he could
well imaine it disagreeable at heast, if not dangerous, to be
present. It is told, wh little daughter for Mrs. Kiphng was one day punishing her
bingly remarked. antruthful statement, the little one sob bingly remarked: "I don't know why mamma whips me fo
telling a story when (Bo ho) pappa writes such whoppers!"
A visiting physician of one of our lunatic asylums one day
ontering the yrounds was astonished as he approdiched the
building to wee a patient who had always been considered dailding to wee a patient who had always been considered
diangerous wandering at will over the lawn within the inclo sure. Rightly conjecturing he had somehow wesaped the vigi-
lant ele of the keeper hhe wa in a dilemma whether to raise
an alarm or try his persilnsive powite an alarm or try hperperuasive powers. He had hot to raise
debatio, howerer for on seing the doctor the fellow made
horrible grimace, brandishing what ..rrifice dye some murderous weapons, and proceeded to
 and blue clay at that. The lawn had been upturne was mud,
to puit in mew water pipes. Ronnd and round, over ditcorder
drain, up the kravel lint
 Weapon. The doctor , hatim, whatill brandishing that druestede
fig for appearances! Life was ofwe he had lost both rubberdi; in for appearances! Life was sweet! Suddenly his foot caught
in a pile of tile placed ready for the workmen. Horor


THE QUIET HOUR.
The Secret of Success.
We kneel, how weak! we rise, how full of power!
Why therefore, should we doo ourselves this wrong-
Or others-that we are not always strong
That we are ever overborne with ccre,
Anxious or troubler, when with us is Prayer.-
And Joy and Strength and Courage are with Thee ?
Do not the difficulties before you sometimes seem to be almost insurmout when the call comes, as it did to Gideon,-"Go in this thy might "-you shrink back, as he did, with words of seeming
humility,-" I am not good enough, wise enough or strong enough for the task," you plead. Yet you know all the time that God has said (as He did to Gideon), "Have not I sent thee?" Look at his position. Israel was completely in the power of
the Midianites, who were "as grasshoppers for multitude." The law of God was entirely disregarded. Instead of punishing a man with death
for worshipping idols, any man who dared to for vorshipping idols, any man who
destroy the idols did it in peril of his life. Gideon was commanded to save israel from the hand of the Midianites, and to begin this salvation by destroying the altar of Baal. This would bring down on him the wrath of his own countrymen. enemies at home and abroad? Surely none, if he looked at his own strength-at his own circumstances. But the things that are impossible with
men are possible with God. It has been well said that '" man's extremity is God's opportunity," What he could never do alone was quite possibie and easy for God to do, in and by him. When the and thou shalt smite the Midianites as one man"" was no longer humility that made him shrink back in fear. It was want of faith. God's power is invisible, and it is not easy to depend absolutely on
it, when the visible enemy is so plainly in sight. it, when the visible enemy is so plainly in sight.
See how gently Gideon's weak faith was strength ened by sign after sign that God was really with him! Then we read that "the Spirit of the Lord ame upon Gideon.
God could save Israel without any difficulty. If He chose to honor Gideon by making him the instrument through which the work was done, He would certainly supply the necessary strength and ability.
Gideon was not allowed to use all the earthly help he might have had, so that he might rely more entirely upon God. When the people were gathered fraid were sent home. The position fearust and been desperate, indeed, when twenty and two thousand were afraid to fight in defense of their desoated country. But even the ten thousand that remained were too many! And, when the host was
reduced to three hundred men, these were told to stand still in their places. The victory was God'sand a great victory it was.
than Gideon's? Dare you refuse to attempt it be cause you are weak and helpless? Perhaps that is the very reason it is put into your hands. "We have this treasure in earthen vessels, that the ex-
cellency of the power may be of God, and not of us." cellency of the power may be of God, and not of us."
God has declared that his strength is "made perfect in weakness." You may fail-indeed you certainly will fail-if you try to work or fight alone. But, as "the Lord looked upon Gideon," as the
disciples, struggling in the darkness on the Lake of Galilee, were under the watchful eye of their Master, so it is with you. He is close beside you, ready to stretch out a helping hand when you look to Him. that is only a reason for depending on God more and more. If the task were easy, you might forget Him altogether. One weapon must be constantly ready for use-the weapon of Prayer. It is both
sword and shield. The attitude of dependence th God is in itself a prayer, and, if cultivated, will become instinctire.
with seeming impossibilities: and then, when they by magic. Think of the Istriculties vanished as if the Red Sea receiving the startling command, "(io forward!" How impossible it looked, and yet how
easy it was! Think of the disciples, surounded loy easy it was! Think of the disciples, surrounded lyy
thousands of hungry people, being able to obey the equally amazing order, "( iive ye them to eat."
Surely "these things happened unto them for ensamples. and they are witten for our admoni The true secret of success, then, is found in look-
ing away from solf altogether, and always looking "p to (iod.


0 leach mee lordi, hat I max tearth

0 fin mow wht fulus. Iond.


## UNCLE TOM'S DEPARTMENT

My dear Nephews and Nieces, -
You will probably think "weeds" a rather
commonplace and uninteresting subject, yet it is about them that I wish to chat with you to-day But what is a weed? A definition I once heard where." a weed is a flower growing out of its sphere," and thought it very appropriate. When beds we call them, in common with other undesirable plants, "weeds," yet in another case we
would not dream of bestowing on them such would not dream of bestowing on them such an appellation. Again, the same title would be un-
hesitatingly bestowed upon some of our garden favorites if found by the careful farmer growing among his grain. Then, many plants that have places carefully cultivated as valuable additions to floriculture. The common mullein that infests our pastures and highways is quite an aristocrat in England, where it rejoices in the name of Ameriful flowering cacti that adorn our windows and greenhouses grow wild in many parts of the States, where they attain an enormous size, and with their dreadful thorns prove very troublesome. In the revel in freedom o'er hill and dale, and are not highly valued, while we have to work a little to procure them. Thus we see the truth of the defi-
nition above quoted. There are, unfortunately more weeds in quoted. The world than those unfortunately, in the earth-weeds of an infinitely more dangerous character-human weeds, creatures whose low justify us in placing them in any other do not Wstify us in placing them in any other class. carry the plant simile further, might not even these be improved if given such care and cultivation as a skillful florist bestows upon his seedlings?
Perhaps, too, we designate as "weeds" many who Peserve a better name, the fault being in our failure to appreciate their worth.
Bad habits may be considered as troublesome
sorts of weeds, very difficult to exterminate. Once sorts of weeds, very difficult to exterminate. Once
I was given a young plant, supposed to bear shed abnormally, and in course cully, it flourappeared. How il watched for the first flower ! Imagine my disappointment at finding it not mereseen growing by the roadside. I dug it up immediately, but the roots seemed to have penetrated everywhere, and it was only after considerable After some time fresh shoots appeared that required similar treatment, but by untiring vigilance succeeded in eradicating them.
If when we find some unlovely habit growing out, we should certainly overcome it. True the roots may be far-reaching and possessed of almost unlimited vitality, but persistent effort will conquer these difficulties; and some wise person has we shall in time become perfect. All seasons are suitable for weeding of this kind, so let us examine our mental gardens, find the most troublesome only this must we do, but if we would not be ourselves to the sphere to which we belong.

## Puzzles.

IThe following prizes are offered every quarter, beginning with months of April, July and October: For answers to §5c. For original puzzles - 1 st , $\$ 1.00: 2$ nd, Tj̄c.; 3rd, 50 c . rules: Puzzles must be original-that is, must not be copied from other papers; they must be written on one side only of paper, and sender's name signed to ench puzzle ; answers must accompany all original puzzles (preferably on separate paper).
It is not necessary to write out puzzles to swers - the number of puzzle and date of issue is sufficient. Partial answers will receive eredit. Work intended for first issue of any month should reach Pakenham not later than the
150 h of the month previous; that for second than the 5th of that month. Leave eenvelope open, mark cent. Address all work to Miss Ada Armand, Pakenham,


My WHOLE is just the loveliest thing
In Summer scrown bequeathed by Spring ;
Cupid proclaims bis Cupum prectaims his mequasate by it
When bashfud lips would fain deny it.

> -Double acrostic.
 In "J Jules Verne's "fullo of fight,
In
In Austi," the poet all Iright,
In Maud Muller" took the judge's sight. Now name the book of the day or nimgt,
'Tis greatly admired, 'tis good and brigt.

## stay the rapid river's course

stay the rapid river's course,
Inard your oood from fraud or force;
Ind yet, fair ladies, I form part
And yet, fair ladies, I form part or force
of charms which bind a lover's heart. .


Two periods of time this will tell -
We all delight to get them. When to spend them is a question
Over which many have to conn
A Scriptural adage based on agricaltural experience consists

, 14-one. 6-A Loving Cup. F. L. S.

| 1, Hurry. <br> 3, Attempt <br> 6, An animal <br> 7, In cup. <br> 8, In cup. <br> 10 , Antic. |
| :---: |
|  |  |
|  |  |


 My first was the first of his kind; my second is the first
sylable of the name for of a famous almanac; my whole is as an
poet's name for a noted northern plantigrade.

## Answers to July 5th Puzzles. <br> 2-The yowels, beech, olive (O! live), bay, fir, birch. <br> ${ }^{3}$ - First of July, ${ }^{2}$, Dominion Day. <br>  -Fencing, marble, fall, Billie, sash, drummer. 9 Rails, inlet, cadji, haven, ashes, ratio, drain, Richard tinson. $10-$ Endeavorer. 11-Husbandman.



| Additional Solvers to June 20th Puzzles. |
| :--- |
| Gertie Klinck, |
| C. Roth. |

M. R. G.-I am glad your Chat.
promptly.
Gertie.
and are
are and are given to those sending most correctit answers mond ths,
those who send most and best puzzles available for publi
ion tion. All puzzles sent are not worth using, so it is better to

 young solvers. so did dot use it. Leet usherye rather difftcult for



Ready with His Chalk.
When Poole, the famous tailor, was an old man noon went cout to walk upon the and one after man was also upon the pier with a couple of ladies man for a you wouldn't take that good-looking man for a tailor, but he is. - Just listen while I take him down a notch or two. I'll tell him my coat, Is he spoke, Poole approarched and politely ac
knowledged the salutation of his customer, who Walking up to him, said: ". Here, Poole, now do
take a look at me. Does this coat fit?" Poole took in the situation. "It certainly does
not fit," said he, and pulling out a piece of firench halk, he proceeded pliberally out a piere of French
wat all over, and then ohserved with cross the urbanity: "Now if you will kindy send that cost
o my shop the alterations shall be attended to


THE FARMER'S ADVOCATE
Founded 1866


GOSSIP.
J. G. Washington, Ninga, has, soll to D
Hyslop \& Son, Killarney, his stock bull, Royai
Hope.
M. Maw. of North Winnipee Poultry Yards
in addition to many other sales made at the
Wind Winnipeg Ino umatri, other sales . mide at the
ton, Dakota, the firto prizo tur Vine, Crooks young hend and a yount prize tom.
Mr. .E. Dool, Hartingtonon. Ont., when writing
 ly, and willil. He Hed has made a few sales reeent.
the Industrial. Merssrs. S. L. Ling \& Cor, Fort Reuge Poultry Success with their poultry at the Winnipegreand
Brandon exhibition

 The Ontario Provincial Winter Fair

 reviouspheek, stock Show will be held the exhbitors will thus
the Chir opportunity of taking in bot
cirutitat a minimum of expense.
 of three very fine Shorthorns of the Misi
family


 Missie of Orke, by Kinellar of York.
 the ifteen-monthb-old Berkshir sow Gow Gorio
LLess, by Court Master, out of Belle op
tholden



 as soon as 1 hateve aceroeding more extensi vely
farm north of Minnecosemodation on my new








 the cud of content ment, and not ampe, caniowng
worry even a little bit about the result of the
 higginbotham's light brahmas

 vears ayo he ocommoncred breading Sme frive
tecuring his fouldation stock from the noted






 with a F.RMER's ANOCATE representative
ately, Mr. Higkinbotham stated that hnt






NOTICE.

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mint by a vetriniarian of our own accurain










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way to every part of the world where the way to every part of the world where the
golded grain waves and the green grass grow. Little's Sheep Dip and Cattle Wash. During a recent visit in the northern part of
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uals, both as recards pedigree and qualty
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 one of themare worthy of comonment. Fevrer
Missie of Neidpath 20th, Maid, and
Strila
 Calves in my herd the past seaton, I still have
Missie of veidpath 2oth's and Maids calve
then are boll they are bot h promisink enough to make how
bulls. Eurillas calf Mr. Harding takes with
him. Without a doubt h. him. Without a doubt he he isarning takes witemarkable
one. and has been pronounced by compete
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 a dark roan -year-old. This is a show heifer
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GOSSIP

 12th. Mrs. Robertson, wife of Prof. Jas. W .
Robertson. performed
Rop
the christ mony, and at the accompanying banguet tere
Professor, in proposing the toast, bProsperity to the shipbuilding and shipping interests, would require ten wew greantly prospering, and
out her increased product.

Hyשton ovt. N. D. Flatt, Mr. W. D. Flatt, of ". Trout Creek Stock
Farm," has. recently made the following siter
To, Greenway, (rystal city, Man Hon. Thos


 hands of Mr. Yule should develop to be a win To W. T. Miller, Carlos City, Ind., Cecil Lady
(imp,.,.an excellent 3.verorod, she being a ree
markably heavy milker; Trout Creek Clan markably heavy milker; Trout Creek Clan
Alpine. a rery promising red bull calf Lustre
18th fimp.), a 2 -year-old heifer, with superb To i. G. Pettit \& Son, Freeman, Ont.,
Tourteen 2 - ear-old (imp,) heif
 beifers, one yearing bull, and one -year-old
bull, making twenty head in all. The above
"ere eelected by Mr. Geo. Campbell, Kinelve
Scotland, whose experience hotand, whose experience while assistiang
his father in the managenent oit the famous
old herd at Kinellar is the best of guarnte
be lot is Cis
 sort. There are five red heifers got by the the
Gordon Castle bred buy hew Years Gift, and
out of Jealousy, Mysie, Minerva, Lily of Towie
ord and Lay Ansy, Mysie, Minerra, Lily of Towie,
old red heifer, Rosilies; the Jealousy 2-year
 grandam, Japonica thh, was got by the Hhosh
land Society priza bull, Lord Chelmsford, to
whom a number are clo heifer, Coquetter is closely related. The roan
heifer, that will satistricularly well bred
heisy the most
 Neither Augustown-one, the Mary Ane from
by Maxime

 top and attractive Shorthoern heifer, with goracter, got by
Star of Itandenter Star of Lancaster. This is a very chor, got speci-
men of the late Mr. Sylvertampbels highly
esteemed Mina family, so full of oll she blood, her Mina family, so full of old Sitityty
Gram being got by the noted bull ally good vearlings, with lots of Cruickshanh
blood in the the bale Chief, bred by Mr. Wilson, Pulls, Mata, Masmill,
and out of Meado Muion
Bouts route tarr, a fine, lengthy bull, good top and
ribs the earling bull, Red Light, bred by Mr
J. Black, Barthelchapel Capt. Ripley, and from the noted Gordon Castle
Lustre tribe, this being a Cesel tribe, this being a very sweet-topped
leve bhowing very
Amo bly Among this lot there are seven straight Cruiekwill compare in breeding with any importation.
They have not been highly done in Scotla
and are only and are only in moderate condition in Scotland, cr number of the females have been bred to
Count ramanth, he being bred by Mr. Duthie
and Mr. Campbeli paid Mr D hen a calf. This gives Mr. Pettit now a very
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mand high hoors in leading sho wrings. Per
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Hamiton, and the late Thos. Guy, Oshawa selecting cows with a view of establishawa
dairy herd of high order, and in that sho he not only attained the end desired, but has
been able to win many of the best local prize been abie to win many of the best local prize
offerings at the eall exhibitions in strong com-
petition. Upon examining their perligree we petition Upon examining their perigreces we
found that he had been equally careful in the
selection of sir

 is in the herd, Mr. Thorn making histselectio
when in search of a right good one and as When in search of a right tood one and as h
proved himself capable of landing the frist a
Torento, as well as first and swoch
 Fourteen females, half of which are matured
cows compose the herd, and are makina
progress towards the progress towards the showyards for the fall
In the poultry department murh ad vance ha,
been made since our last visit. Ane fine

 Chorce sock. In the pens we found Light and
Dark Brahmas, White, Buff Black and Part-
ridge Cochins, White and Black Minorcas and
Raged Rarred Plymouth Rocks, and as with the Ayr
shires so with poultry, the best is none too
good for Mr. Thorn. mORE SHORTHORNS FOR MICHIGA Mr. A. Chrystal, Marshall.Mich. has recently
Made the following purchases of high-clas
Shorthorn cattle in shorthorn cattle in the Dominioni, in addition
to the list of his purchases published in the
FARMER'S ADVOC FARMER'S ADVOCATE of July 20:-From Arthur
Johnston, Green wood, Duchess of Glost er 43 rdi a worthy representati ve of the famous Cruick-
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was secture was secured the beautitul heifer Minown herd
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old Kinellar (Campell (6379) Mo old Kinellar (lementina tribe, of the grand
carefully bred by that master song and
arluent Sylvester canphell. hat measter breeder. Mr.
famous inported Indian Chim shank's, Victoria tribe Chief, of Mr. Cy truick-
dam as Col. Harris' well- , dam as ol. Harris' well-known baron Victor
one of the very best Cruickshan imported to Amesica, Fromphank Mre bolls ever
herd, Mr. Chrystal also selected Pr Johnston's
hy
 Buds, one of the e ery best tribes in scotland
She traces to imp. Emily, of the colet She trace to imp. Emily, of the celebratcd
herd of Mr. Re Stratton, which neel only be
mentioned, and remrecon the cious blend ing of the bboo offect of a a grad old
English fanily with the very best of the
inots faniy sidel won friter prize at the Toronto Industrim
Exthibition in lsol in Exhibition in 189 in a most excellent clas
and stood second for sweepstakescls on the ground. A choice young bull wemalic
purchased from Mr. Johnston bred tris purchased from Mr. Johnston, breed from the toria, being a daughter of imp. Vice consul,
bred by Mr. (ruicksthank, and of hie fuls Victoria fanily ITe wank, weepstake winner
at the Toronto Fxhibition and an sies From the herd of Messts. (argill \& Son, (Car
gill, Ont., Mr. (Chrystal secured the two choic yount cows, Farl, 1 sud and and Two of (an



 From Meste (i. Wr Petit \& som, Freman










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## Thousands drink Slue

 Ribbon beeton Dea err day. tet any of them what they tint of it.
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