 *Agriculture, Stock, Dairy, Poultry, Horticulture,Veterinary, Home Circle.*


THE CARRIAGE゙ STALLION, KNIGHT OF THF: VAIF,


## EDITORIAL.

Reports from Great Britain show that the presit lambing season has been one of the most pros perous for many years.

The School of Agriculture, University of Minesota, has instituted a special course in dairying and domestic economy for young women.

All the bills for the extermination of the Russian thistle, that have been pending in the U. S. House Committee
The Rural New Yorker has sent Mr. Bull $\$ 52.59$ as the first insta for the gratitude fund, which grape, who is in needy circumstances.

Great indignation is expressed by all horse and turf papers in what they term the official whitewashing of those who were engaged in the famous Alix-Pixley case, by the extraordinary verdict or finding of the Board of Appeals of the American
Trotting Association.

It is reported that, although the United States Secretar y of Agriculture decided to discontinue the experiments which have been conducted for the past two years in rain-making, several of the railroad companies operating in the far West will continue experiments in this line.

Michigan has a very stingent law against the introduction of fruit trees affected with the black knot. Any person who neglects to remove or one hundred dollars, three months' imprisoned, or both, at the discretion of the judge.

The Governor of New York has signed the Thornton Bill, providing for the compensation of the owners of cattle killed for tuberculosis, and priating the sum of $\$ 8,000$ for horticultural experts at both Geneva and Cornell Experiment. Stations.

As an example of how many of the big wheat farmers in Manitoba are diversifying their crops this year, Mr. Leech, the well-known Secretary of the Central Institute, informs us in a recent letter that he has this year sown 325 acres of wheat, 60 o
oats, 45 of barley, 20 acres green feed, 5 in corn and 3 in roots.
Nebraska is making distinct progress with the sugar-beet problem. In 1891 she produced $2,700,000$ pounds; in 1892 she produced thirty-three per cent. more than in the previous year, while in 1893 she turned out $5,835,900$ pounds, or a gain of fifty produces more beet-sugar than any other State in produces mo

Just at present, the question of the innoculation for anthrax is interesting the Australian world The experiments of Mr. J. A. Gunn appear to have animal vaccinated with the anthrax virus is proof against this flock-destroying pest. The cost
of vaccination, by the Gunn process, is only four ents per head.
We learn, by mean of the New Hampshire Mirror, that at Narragansell Park, where public betting is not allowed, immense fielas face the and that the daily attendance is enormous. This shows that, with proper management, it is possibl betting-without lessening the gate receipts.

The New York State Board of Health and it uberculin-injecting inspectors have, by legislativ enactment, been relieved of thers orng suspected cattle slaughtered. A commission, to and composed of one veterinatian, Dairymen's Associa ion, has been created a board, by the Legislature to supercede the Board of Health in this work.
Mr. Hatche's new anti-Option Bill, which is in tended to repress bogus transactions and gambling in grain and other farmproducts, Committee of the eported on by the Representatives. It is though that the prospects for the passage of this bill are food, and that it will not only be a source of re

## Knight of the Vale.

 Our frontispiece engraving is a representation of the property of Messrs. Knettel, Boissevain, Mani toba. Knight of the Vale (1799) is registered in Volume V. of the Yorkshire Coach Horse Society of Great Britain, also recorded in the America Cleveland Bay Stud Book, (999), Volume III., and No. I7 in the Horse Breeders' Lien Act of Manitoba He was bred by Wm. Codling, Eskdalside, Slights Whitby, England, atterwards passing into te Roebuck, Bolton, Percy, Yorkshine from whom he was purchased by his importers, Messrs. J. D. McGregor \& Co., Brandon, Manitoba, subsequently being purchased by his present owners.Before leaving England he made for himself remarkable showyard record, winning second place at the great Yorkshire show in a strong and repie sentatives class, and third at the Royal at . showe of Cleveland Bays and Yorkshire Coach Horses held in the United Kingdom.
Since coming to this side of the "pond" his successes in the show ring have been numerous, always heading the lists wherever shown. At the Winnipeg Industryal in 1893 he stood first in the four-year-old class, and took the sweepstakes (silver medal) for all ages; he also captured the FARMER'S ADVOCATE special (atery for the best carriage stallion in classes 8,9 and 10 , which included Thoroughbred, Hackney and Coach Horses. He also won first and silver medal at the Boissevain Spring Stallion Show, and at the Boisse vain Agricultural Societies' Show in the antumn. Knight of the Vale is a beautiful bay in color, stands $16 \frac{1}{2}$ hands high, and at present weighs about 1,600 pounds. He hashbred, well-laid shoulders and neend the feet and large, flat, hard bone so essential to the roadster. He moves with that elegant and forceful action characteristic of the Cleveland Bay

Foaled in 1889, sired by County King 110, first dam by Wonderful 533 , third dam by Bass Rock, S. B., etc., etc., of extremely fash ionable breeding, combining some of rke most celebrated Thoroughbred Cleveland Bay, York such names from the Clevehistory. Among them such names from the Cleveland Lad and Skyrocket; and from the stud book of Thoroughbreds, Necromancer, Bass Rock and Darley Arabian
Manitoba is fortunate to have such a horse within her borders, and great credit is due to the mporters and owners of such horses, and now when ordinary horses are so low in value it is the more important to bre
The Knittle Bros. can accomodate a limited number of approved mares during the season, with care and pasture at reasonable rates.

Manitoba Crops.
A crop report will be issued by the Departmen of Agriculture early in June. From what informawheat have will be about as large as last year, there being always some new land coming under cultivation, but there will be a much larger area than before devoted to other crops-barley, oats and lax, while corn, roots and grasses will be sown in ar greater quantities than ever before in the his ory of the West. The Winnipeg seedsmen report largely increased sales this spate that in line arden seeds. Kelth exceeded last year's business there being a special demand for corn, peas, turnips, rape and millets, while Mr. Perkins says he
has sold forty bushels of North Dakota Flint, besides considerable quantities of other corns, and also large quantities of timothy, red clove
principally to the far West) and red-top grasses onions, turnips and mangolds. Body \& Noakes,
linseed oil works, say the demand for flax-seed far inseed oil works, say the
exceeds any previous year.
Messrs. Bousfield and Greenwood, of Douglas are establishing a creamery, on the cream-gathering supply from the farmers near
it shipped every day by train.
Ex-Postmaster-(General Wanamaker states that he spent $\$ 10,000$ in testing the free decivery of mai
matter in rural districts, and that the results wer that, in the majority of the cases, the mails and
revenues increased, and the husiness at the post
oftices became so much larger that private arrange ments were made to have the service contined
when it became erident that the present I Inited
States Administration would not continue it.

A Teachers' Institute.
Mr. Gilbert Wilson, principal of the Brandon Collegiate, read a paper on "Agriculture in the Rural Schools, "at the late teachers' institute, a Branden. The following notes of the essay, and discussion
Press":-
"He would place the subject on the programm of studies, because of (1) its educational value, (2)
its sociological value, (3) its economic value, its sociological value, (3) its economic value. and in the senior divisions the knowledge thu gained would be applied to the practical home lif
of the pupil. The pupils must study nature-not of the pupil. The pupils must study nature - not
text book; the only book required would be one in which to set down their observations and conclu sions. The pupils thenselves should bring the
materials of study, such as samples of soils, samples materials of study, such as samples of soils, sample of hay and grain in different stages of growth, etc In this way, a living interest would be fostered,
which could never be the case if the subject were which could never be the case if the subject were
taught by text book alone. Pupils should be en taught by toxt book alone. Puped, on a small scale to ascertain principles of growth, etc. All thi
would tend not only to accurate knowledge, bu would tend not only to accurate, knowledge, bu
also to a genuine interest in farming. Agriculture also to a genuine interest in farming. Agricumina tions, being substituted for physics or botany, and
the Normal schools should give instruction in bes the thods of presentation."
Messro. W. A. McIntyre and H.S. McLean agreed with much advanced by Mr. Wilson, which was no as great an innovation as many suppose. Much
the work outlined was being actually carried on present, under the name of nature study. Mr. J. D. Hunt gave hints and suggestions as to man points in which improvement might be made in the
social and economic condition of the farmers of th Province. Mr. J. Ridington pointed out that there was considerable difference between the plan a
outlined by Mr. Wilson and that for which man outlined by Mr. Wilson and that for which many
were at present agitating. He took issue with the position laid down by the essayist, maintaining position the sphere of the Public school was not to prepare pupils for any special business, but merest
for the duties of citizenship. He agreed most
heartily with the essayist that the work outlined in the $\begin{gathered}\text { with the essayist that the work out that }\end{gathered}$ this was not the duty of
the Agricultural college.

## Tuberculosis.

Tuberculosis, at the present time, is receiving a great deal of public atcention, not only on this continent, but in Europe. Science has thrown new light on this hitherto little-understood disease, and," The newspapers publish, under flaring headlines, all kinds of misleading statements, generally mixing up tuberculosis and pleuro-pneumonia. "Expert up tence " is not wanting of the most blood-curdling nature as to the imminent danger to human life in partaking of the milk or meat of an animal how-
ever slightly affected; others, again, taking the ever site extreme, claim that tuberculosis is no more prevalent nor the death rate from consumptio
the human subject no higher than in past years While "doctors disagree" as to the extent which the human subject is liable to contract the disease, one thing appears clearly demonstrated:
that the tuberculin test is an almost infallible diagnostic of bovine tuberculosis; something over
$80 \%$ of cases, showing the reaction from the test, prove to have tubercules in some organ of the body, The rise in temperature, however, is just as marked ungs and all the intestines were far gone with the isease, although its exte
be located till after death.
One thing more that seems not very clear as yet is that in most cases where the disease has effected hopt under what has been considered most favorkept under what has been considered most favorNow, while science is setuling these problems,
very cattle-breeder should look well to his own herd, and, if he has any suspicious cases, it would be well to have the tuberculin test applied, and do all possible tc stamp out this dreaded plague. with the lymph and acyuaint themselves with the method of application.
The city and town populations are wakening up
o the seriousness of the situation, and demanding protection in their milk supply, and rightly so. Corporations should insist upon the inspection and ing to private individuals are to be killed for the public weal, the public should be willng, in some
way, to compensate the individual loser.

Read "Invicta's" queries in this issue $r e$ water
supply. We would like to hear from any who have atisfactorily solved this problem. Your experience

The farmers in the vicinity of Portage (reek
have orsanized a creamery company. The capital等

the leading agricultural journal in the DOMTNTON.

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National League for Good Roads
The National League for Good Roads will join Association in calling a general conference of all
Road Improvement Associations in the United tates, to be held at Asbury Park. N. J., between
Iuly 2 and 6,1894 , on the occasion of the National Editorial Convention at that place.
It is not intended at this meeting to form any national organizations, or to take any combined "tion, but to discuss the general subject with the
"Ivantage of all the local information obtainable. It is expected that some of the road machine on in all its branches, at that time and place. Many of the leading railroad companies have
xpressed a desire to aid in the general movement ir good roads, by making very mportant conces"ins be suggested to the companies to have repre--ntatives at this, conference for the purpose of
omoting some concerted action in this direction.
The office of Road Inquiry of the $I$. S. Depart omoting some concerted action in this. direction.
The office of Road Inquiry of the 1

## How to Build a Silo.

"Will you describe to a new subscriber the way brick building be suitable and cheap? May 1 sink the floor of the silo lower than the
byre floor? What size would be suitable to supply sixteen head of cattle with food during the winter?
of papers. We have, through it, obtained the ddresses of many of Canada's best Ayrshire
The first silos were pits dug in the earth. In
The first silos were pits dug in the earth. In the most serious inconvenience from the underground pits was the great difficulty experienced in
getting the silage out when needed. groduction of improved carriers on the cutting boxes,
the pit silos dropped into disuse. They are now the pit silos dropped into disuse. They are now the barn, are on a level with the stable floor. Wood is generally recognized as the best material
or the construction of siks, being much cheaper
han brick or stone, and equally as serviceable in than brick or stone, and equal
the preservation of the fodder.
Silage is a heavy food, and should be located as near the stock as possible. In order to have the
silo near the cattle, and also to make the construction as cheap as possible, it is a wise plan to build in the barn. A root cellar, or a portion of it, can floor above, and building a wooden wall to the
height of the barn plates Where the cattle stand height of the barn plading alley between, it willoften in two rows, with a feeding alley between, it willotten the door opposite the passageway. It should be so located as to be filled from the outside. Ample
space for cutting-box, power and wagons is necesspace f
sary.
material.
Stone or brick is now seldom used, unless it is de ard even in such cases it is better to hove the walls lined with wood. Mr. E. D. Tilson, of Tilsonburg, Ont., has in use several excellent silos constructed o brick coated with cement plaster. At cent. of en-
Experimental Station nearly 50 per cent Experistored in stone silos was spoiled. Though no
silagh results have been noted by others, yet experi-
such such results have been noted by others, yet experi-
ence goes to prove that a better ensilage can be obtained from wooden silos.

The cheapest floor consists of solid clay, raised a few inches above the surface of the surrounding
ground. A wooden floor is not to be recommended. A coat of cement, though not necessary, is often
applied to the floor. John Gould, the well-known ensilage authority, of Ohio, recommends hollowing out the clay floor in the form of a bowl, the earth
from the centre to be thrown up and packed firmly around the bottom of the wall, in order to take part of the pressure from the sides of the silo.

$$
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& \text { Foundation. } \\
& \text { n should be }
\end{aligned}
$$

The foundation should be of stone or brick,
though this is not absolutely necessary; concrete though this is not absolutely necessary; concret formed of gravel and cemen the ground. The wall,
ally up to the surface of the
upon which the sills rest, should be at least six inches above the floor, and eight inches above the
ground surface. The sills should be anchored to the ground surface. The sills should be anchored to the of two pieces of $2 \times 8$ or $2 \times 10$ inch stuff, spiked to-
gether; these should be painted with coal tar, and gether; these should be painted with coal tar, and
bedded in mortar with the ends crossed at the bedded in mortar with the en
corners and well spiked together
studding.
Studs smaller than $2 \times 8$ inches are seldom used, even for small structures. Experiments carried on a
the Wisconsin Experimental Station, with a view to determine the pressure which was safe to allow on the sides of a silo, showed that to insure against bending, the studs should be not less than ten than twelve inches for eighteen to twenty feet deep, and wider in proportion as the depth increases. In
these tests the uprights were eighteen inches apart these tests the uprights were eighteen ine, the studs
To be secured against latterel pressuren shouls is most essential (the pressure being very
wallat) in order to prevent spreading. which admits great), in order to prevent spr
the air and spoils the ensilage.

The usual lining consists of two thicknesses of
boards, joints broken; a thickness of tarre paper should be used between the layers of boards Other materials have been used, so satisfactory as the above. Lath and
proved
plaster have been tried. but the silage renders the plaster soft, and liable to be destroyed
as well as the laths and framework. The Wiscon sin Experimental Station lined one silo with tin,
another with sheet iron, neither of which was satis another with sheet iron, neither of which was satis
factory. The inner liningshould beof boards, dressed on the side next to the ensilage. A method which is has the recommendation of John Gould, is to us a single thickness of T. \& G. lumber, dressed on the
inside. In this case the groove should be filled with an air-tight covering, and at much less expens than two thicknesses of lumber with tar paper

There is much difference of opinion in regard to
he advisability of painting the inside of silos with oal tar or other material for the purpose of preserving the wood. A lining perfectly impervious to ous places are left for the silage juices to enter the wood, while the coat of paint may do harm by preventing the quick drying of the boards after the
removal of the ensilage. Some prefer an ordinary coat of paint.
The officers of the Wisconsin Station examined a number of silos, both painted and unpainted, and is built inside the barn, nolining on the outside will be required. If it is a separate building, the best plan is to use two thicknesses of sheeting, with tar paper
between, though good results are reported where only one thickness of inch lumber has been used. The silo will be more durable if the outside coat of lumber is dressed and treated to a coat of paint.

As a rule the ensilage settles badly in the corners, especially in tramping hase: almost invariably the worst ensilage is found in the corners. Sharp
corners may be avoided by nailing a verticle board with beveled edges in the corners. The aperature some other suitable material. Instead of boards, the corner may be filled by using a three-cornered
piece of timber made by splitting-say, a $6 \times 6 \mathrm{in}$. piece of timber mad
scantling, with a saw

DOORS.
The doors may be continuous from top to ensilage may drop to the floor of the cattle stable. or there may be a space of several feet left between
them. The former method is more convenient for feeding, but the latter adds strength to the silo, and prevents the walls from spreading. If outside doors are used they should be hung on hinges. place short boards across the doorway, which will pe held in place by the weight of the ensilage, and can be built up as the height of the ensilage in-
creases-ice-house fashion. By the use of tar paper the air can be excluded.
ventilation
In all silos which are not built inside a building, entilation reason do not require an outside wall, hould be provided for. This permits the circulation of dry air between the walls, and thus retards action of decay. In order to allow for this ventillate nearly by two inches. In the lowest board of the outer lining auger holes may be bored overed with wire netting; it is better to close hem altogether in cold weathe
atter of great importance, proThis is not a matter of great importance, pro-
vided it is light and waterproof. $A$ space should be left in the gable for a door, or if the roof is cirfor the carrier which conveys the ensilage into the ensilage, suficient ventilation hould be provided for by good-sized ventilators.
size of the silo.

The size of the silo will depend upon the number of animals in the hers the fongth o estimate would be one cubic foot per animal per day. The Wisconsin Station recommends a depth of at least 24 feet. The simallest per cent. of waste
ccurs in deep silos, but the additional cost in framing the building and elevating the ensilage largely counterbalances any advantage which
here may be in having the silo of a greater depth A rore may be in having the silo of a greater depth. or round silo has a greater capacity for the amount liability to waste at the corners is done away with At the usual estimate of 50 pounds to the cubic
foot of ensilage, allowing 40 pounds of ensilage per day per animal for 200 days, sixteen cattle would require 64 tons of ensilage, or a total cubic of $16 \times 16 \times 10$ or $20 \times 12 \times 102$, inside measurement. But, as ensilage will settle greatly, often to the extent of one-third the bulk, allowance will have to be would be, for a rectangular silo, $1+1 \times 14 \frac{1}{1}$ and 20 feet 20 feet deep, which would give a total capacity o (0) tons, or allowing for settling about 70 tons.

$$
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& \text { cot. } \\
& \text { sible }
\end{aligned}
$$

It is almost impossible to give the cost of buildng a silo, owing to the great variation in the cost
of the material and in the price of labor. If built in a barn, a silo, such as the above, would cost
about one dollar per ton of capacity, or less, if the naterial is on the farm, or if the silo is of large size. A silo of the dimensions of the one just des-
cribed, if a stone foundation was built, would re-
quire ils cubic feet of stonework.


If single boarding were used, 1,200 feet of T. \&
lumber, dressed on one side, at $\$ 20$, would cost G. lumber, dressed on one side, at $\$ 20$, would cost
$\$ 24$, or a saving of $\$ 9.80$ over the double boarding and tar paper, besides requiring less labor
and nails, which would more than pay for the tar required for filling the grooves. If the silo is constructed as a building by itself, the additiona
expense incurred will be for the outside sheeting and roof. The outside sheeting would cost about the same as for the inside; it may be either single or double, as preferred. The single boaraing ounl
\& Gumber will be. foun cheaper and equaly
Wihtether single or double, the inside boards must be sound, free from knot-holes and be cood plan to put on the inside boards vertically. It good plan to put onl

The Silo, as Adapted to Manitoba.
by s. a. bedford, brandon experimental farm. Even the most enthusiastic advocates of the silo o not claim that the silo adds anything to the the corn the same as we do our native hay, the advantages of the silo would hardly compensate for the extra work connected with its management. But, owing to the large amount of sweet sap conained even in well-cured corn, it stack it as we do hay.
We contend that the use of the silo has the following advantages: It enables us to grow and preserve one of the most proses the crop can be stored crops. For ensilage purposes ting us to utilize odd days during wheat harvest.
A silo, properly built, preserves the green corn with nearly all its feeding qualities uninjured. Cut ensilage is in the best possible condition for mixing with other fodder. The chn is compact form, occupying little space,
consideration where building connection with a bank
The building of a silo in connection with a bank barn is a very Experimental Farm are each 9x9 feet and 22 feet deep, the sills are $6 \times 6$, tamarac; on these rest the $2 \times 8$ studs, placed perpendicularly, 18 inches apart, capped with a $2 \times 12$ plater On this frawe work a double thickness of boards are nailed horizontaly, both inside and out, and with tar paper bet ween each iay well lapped around the corners. In other paperd, the silos are two large, air-tight packing
words, the es are
boxes 9 feet suuare and 2 feet deep. boxes, 9 feet square and is used for the floor, and
Well-tramped clay apears to answer every purpo
the barn, no roof is required.
of a silo inside of bank ham
about $\$ 1$ per ton of capacity
The silos are filled by running the fodder (which, with us, is generally Indian corn) through a cutting box; a carrier atcentre of the silo at the rate of a ton
drops it in the cent in ten minutes; after each 1oad, this the butts and spread over the silo so as to inter
leaves and insure even settling.
leaves allow time for settling, the silos are filled on
To allo with cut straw, and when very cold weather sets in, a movable cover of boards,
Before the silo is half filled, fermentation sets in dhis heat is maintained well into the new year The ensilage is ready for greenish-brown color nd has a decided malty odor and a slightly acid taste, but with ensilage made of immature or un-
wilted corn, the odor is disagreeable, strong, and he acidity, greatly increased.
The ensilage is fed from the top by means o mall doors in the front, which must,
All stock readili eat the ensilage, and its effect is somewhat similar to good pastinter.
The amount fed varies from 15 to 35 lis. per cow, nd is alwayseal. odder and meal. we find that ensilage from early
In conclusion, ripening corn can be profitably made in this Pro-
vince, and it is the very thing required to keep the system of our cattle in good s.
and sometimes severe winter.

## A Bug Trap.

The following, which 1 have found excellent for keeping borers from quince and apple trees, may
penefit some reader, and it is better than printers benefit some reader, and it is be from crawling up
ink to prevent canker worms fur
trees:-One uluart iright, not white, varnish, onetrees gill sulphuric aciid, one gill lard oil, mix the acid and varnish first it make ou thins it Apply it and
the addition of the laro oil thove to two inches



## STOCK.

## Our Scottish Letter

Since I last wrote, Mr. Gardner, the Minister of Agriculture, has given his verdict on the opening f the ports to Canadian cattle. He says: "No; or some little time further, that there is no risk of isease from Canada, then the ports will be opened in the end of July." This reply, which is not in the words actually used by Mr. Gardner, has been variously interpreted. To the great body of farmers in reat Britain and Ireland, eased the minority in the north-east of Scotland and Norfolk, whose experince with Canadians led them to form a high pinion of their merits as forsy is at present not a happy one. The gradual increase in the number of oreakn stores, imported up to the country to cease breeding cattle, or to breed them dead meat which is coming in is lowering the eeder's revenue, so that with the result that he is unable to see how end farmers are not obtaining remuneration for the be another cry than that which we have heard. Altogether, the situation is difficult, and the future
will inevitaly see changes of one kind or other will inevitably see changes of one kind or other
Meantime the question simply is, whether the Meantime the question simply is, whether the ing of the ports, are to dictate the National Policy against the interests of the overwhelming majority
of their countrymen who take another view? It is of their right that such should be the case. We are now in the height of the Ayr and Glasgow show season. it is in to the best advantage, and cattle shows are se general feeling that we have too many of them. At Ayr, Maryhill and Glasgow three great shows have been held wlace for Ayrshire The firstis second is an intermediate kind of gathering, at which a good show of horses can generally
be sen, and the third is the great Clydesdale show be seen, and the third is the great Clydesdale show
of the season. In regard to Ayrshires, some have of the season. In regard to Ayrshires, some have
long been fighting against the fancy ideas which long been in their judging, and it is a gratifying
prevail in
feature that at last there appears to be some hope eature that at last there appears to be some hope of getting the great dairy breed judged with an eye
to the production of milk. It is a great misfortune to the produceful breed is made the sport of a fancy, and this too long was the fate of Ayrshire cattle.
If one thing should have been more strenuously If one thing shoulh have it was the abuse of the milkresis powers of a dairy breed. All that judges looked at, for a number of years, was a tight, long, shallow she could win a prize, although they are the very points which dairymaids detest. It would almost seem as if a form of insanity had taken possession properties were preferred to place and prize. Now, properties said, the tide has turned, and dairy pur-
as have siten when Ayrshires are being poses are not forgotten when Ayrshires are being
judged. Some grand, milky-looking stock were judged. Some grand, minder Cross, of K nockdon Mr. Abram Kerr, Castlehill, Durrisdeer: Mr. Hugh Drummond, Craighead, Mauchline, and Mr. Rober J. Montgomerie, Lessas a grand milking herd at South-
Stewart, Bart., has Sick, Dumfries, and Mr. William Hunter, Fulto
wains, Prestwick, has Ayrshires which proved Mains, Prestwick, has Ayrshires whing test at the recent show. Clydesdales, at Glasgow, were one of the grandest
xhibitions of the breed seen for many years. The family group prize for the best five yearlings afte one sire was won by the well-known eldestale breeding gregor
horse of repute. No other horse has so often wo
, in these comp. His daughter, Royal Rose, bred by Mr. And. Montgomery, and owned by Mr. Wh
Graham, of Edengrove, Penrith, won the cup a the best mare under four years old. Mr. Jame
Loc ;hart showed his splendid Darnley mare Loc inart sho won easily in a strong class of brood
Pandora, and haps, the best animal ever produced by the cross o class, Mr. John Gilmour, of Montrave, won with the Ayr champion mare, lon 673 , and the world famed Moss Rose. It was unfortunate that ther
was no competition between Pandora and Montrave wasud for a special premium-none being offered Pandora's son, Mains of Airies, stood second to
Macgregor in the family competition, and Mr. Wm. Wenwick s Prince Alexander 8899, won for the
group of five two-year-olds, with five out of seven
oals left champonship for Clark's two-year-old colt, Royal Gartly, which has not yet been beatenin ins class,
and looks well. He beat Prince of Millfiel. Mr
Walter S. Parl. with of her progeny, with the nice mare, Maton Beaut
and herson, Prince of Erskine, and danghter, a tw
year-old filly by Prince Alexander.

Chatty Stock Letter from the States. from our chicago correspondent. Top cattle prices, \$4.40, being 30c. lower than a ortnight ago, and $\$ 1.60$ lower than a year ago, when
ont corn-fed steers sold at $\$ 6.00$; "stillers," $\$ 5.40$, nd heifers, $\$ 4.80$. Top hogs, $\$ 5.00$, being 3ic. lower han half a month ago, and $\$ 2.70$ lower than twelve nonths ago. Top sheep (shorn), averaging 162 ibs., about 40 c . lower than at the corresponding time last year. Top lambs, $\$ 5.00$, against $\$ 7.35$ a year ago.
Best draught horses, $\$ 200$, being $\$ 35$ lower than a year ago. Street car horses, $\$ 60$ to $\$ 85$ per head,
against $\$ 65$ to $\$ 110$ a year ago. Wheat, 572 c ., against $73 \frac{1}{8} \mathrm{c}$. a year ago. Corn, 383 cc ., against $\$ 41$ 3̆c. year ago. Mess pork, $\$ 11.85$, against $\$ 20.75$ a year
go. Lard, $\$ 6.87 \frac{1}{2}$, against $\$ 10.45$ during the boom go. Lard, $\$ 6.87$,
The beef cattle market is working along very
The matisfactorily to owners of thoroughly ripe unsatisfactorily to owners of thoroughly ripe
heeves. The $1,600 \mathrm{lb}$. and $1,100 \mathrm{lb}$. steers are selling aeever the same notch- $\$ 4.00$. The distillery cattle feeders are still holding back all the cattle hat are not forced to market, and thact. Recently arge shipments of beef steers and bulls have been made from here to Antwerp, by N. Morris and Reemer \& $B$. The cattle expow prices abroad, and ng quite bare losing some good money. The dressed beef business is steadily crowing out the she sto
shippers. Waixel, son of Isaac Waixel, has quit the
Dave cattle trade and gone into the livery business shippers, Myers \& R., has dropped out and eos. to the engraving business with some Ne Mork, has
The United Dressed Beef Co., of New York consolidated the interests of a
live cattle dealers and butchers.

$$
\begin{aligned}
& \text { live cattle dealers and butchers. } \\
& \text { In the hog situation there }
\end{aligned}
$$

In the hog situation there is no remarkable change rom a perpled to know what to buyers are some what pert for a while that they had prices well on the road to $\$ 4.00$, but latterly the supplies have been running short and the demand has improved. Th farmers were never so saving of their pigs as they
are this spring, but for all that, there does not seem to be a very large surplus anywhere in the country A well-informed dealer declared that if it were not for the general business depression
have been selling for $\$ 6.00$ (a $\$ 7.00$.
Sheep receipts are on the decrease, and the
market is consequently in healthier tone. The market is consequently in healthier tone. The
market, however, does not regain the boom-like buoyancy of six weeks ago. The great bulk of the
"crop" of fed Western sheep is in, and the runs of "crop" of fod Western sheep is in, and other on account rexas ancither of grass. Latest reports, however,
of a scarcity
point to good rains and fine grass nearly everypoint to good rains and fine grass nearly every
Where, and sheep will soon begin to gain in flesh. where, and sheep will soon begin to gain in life, or 17 years, on this market, and this year (A.D. 1894)
is the first in which he ever saw shorn sheep actually outsell wooled sheep of the same mutton quality. It indicates a queer state of affairs when
good wool is not considered worth the cutting and caring for. The time must come, and soon, when this will change. Texas was
market a year ago this time with 70 to 95 lb
sheep, selling at $\$ 3.25$ (a $\$ 4.40$. So far this year she has sent forward almost no gras
will have a host of them a ittle later. \& Co., was here, having returned from the Eastern seaboard,
where he went to see some of his sheep safely off. where he went to see some of his sheep safely off.
He shipped some from Montreal. The ocean freight He shipped some from $\$ 1.50$ per head. He made contracts at Montreal because the opening of navigation brought a lot more boats to that port than
could get loads, so they were willing to cut rates a little. Gould is shipping 120 to 130 lb . fed and shorn
Mr. Gol Western wethers, which he contracted at the
Mississipi River during the high prices, at $\$ 4.75$ per 1100 lbs.
s. coal strike indirectly affects the meat industry by decreasing the number of general factories strated that it is the working man who must be depended upon to eat the meal. The horse market is improving, though the plugs are being sold at very low figures. une Chitiogo
Union Stock Yard Co. is putting addinal
barns and office buildings to accommodate the growing horse business. Electric light sales of

The Situation as to Home-Breeding.
Before giving up the breeding of horses and delaring the business dead, will it not be well to take
a candid, practical view of the case; and, before a candid, practicad view of already, gained, con-
throwing away advantages on
sider well what has brought on present conditions: whether the causes are likely to continue indefi-
nitely, and if not, how best to prepare ourselves to
take advantage of the change when it comes? lake advantage of the change when it comes :
Many breeders attribute the present condition of the home market to an overproduction and the in-
troduction of electricity. The overproduction has heen entirely of the cheaper grades, and this is the
l has heing displaced by electricit $y$. Flect icity can
never take the place of the Heavy Draught or fine左


## A Home-made Stacker.

Mr. H. P. Edmunds, of Illinois, has devised a Mr. H. P. Ed-
home-made havest
given herewith:-
The frame is made of two poles or timbers, about forty feet long. This is long enough to build stack twenty-fve to unnecessay weight in handling; pop-
ward toa avoid und
lar does well. If suitable native timber cannot be lar does well. If suitable native timber cannot be
obtained, use pine, splicing two pieces together to obtained, use pine, spicing two pieces together io
secure the needed lengt.. Use $6 \times 6$ inch tim.
bers for the lower section, and $4 \times 4$ inch moterial for the uppere part. At the top they are bolted together with a single strong bolt. The
cross-bar near the top is about 4 feet long, and is cross-bar near the
They are set on top of the ground and supported
by long guy ropes, which are attuched at the apex by long guy ropes, which are attached at the apex
and staked at 1, These stakes must be set so the and staked at connecting them will run length wise
straight line
trough the centre of the site for the stack. The through the centre of the site for the stack. The
load of hay is then driven along the end, as shown larough hay is then driven along the end, as shown
lod of the illustration, and the fork loaded. The rope
in the for drawing up the loaded fork is tied to the cross-
beam, passed through the pulley on the fork: through pulley three on the cross-beam, and extending down the the ground on one it it (to avoid too much of aside drapt,) passing through pulley 2 as
shown. After the fork is set, the load is drawn up by a horse or team hitcched to to the rope which runs
through the pulley at 2 . The poles remain in the position shown at A until the load strikes the cross-beam, when the draft brings them over to the
position B.' The load is them immediately over the stack, and is dropped upon it. When the load is stack, and is dropped upon it. , hen the load is
off, the opoes are easily tipped, and in drawing
back the ork the man in the wagon usually pulls back the fork the man in the wagon usually pulls
them back to the position shown at A , or if they them back to the position shown at A, or it they
are not thus pulled back they will come into posiaren when the team is started to draw
tion the next load. This is a very cheap
up up the next lood. This is a very cheap
and easily-constructed device for and easily-constructed device for
stacking hay, and can be used where
hay in stacking hay, and can he used where
hay in hauled on wagons, has sleds, or
by any of the devices for drawing in by any of the devices for drawing in
shocks. TTe length of stack, which shocks. The length of stack, which
will be made at a single setting, can be wailied made at a single setting, can be
varied to suit the builder. Quite a
common method is to put up a concommon method is to put up a con-
venient length, and simply move the venien
stacker on far enough to build another section to the first, and so on, making a long rick. This method also saves time in moving, as the poien do not "stepped" along to the new position. The guy ropes must be quite long,
varying somewhat with the length of varying so
Horticultural Notes for June. Raspberries should receive constant,
shallow cultivation until just before shallow cultivation until ust before
the fruit begins to ripen, after which time all cultivation should cease. All new canes should be cut back as soon as they have reached the height of
three feet, as the number of laterals three feet, as the number of laterals
therey produced will bear double the
quantity of ruit the following season quantity of fruit the following season
as would be grown if the canes were as would be grown if the canes were
left untrimmed. Orange or red rust should be cut out and burned as soon as discovered.
When
len When spraying for Anthrruchose do not use Bordeau
mixture after the fruit has set, but use ammonical mixture after the fruit
copper carbonate instead.
Black berry canes should also be cut back at the height of three feet. The rows should lite kept as narrow as possible by thorough cultivation. Only
one cane should be allowed to grow in each two feet of space in the row: all others should be treated as weeds and hoed off as soon as they appear.
Strawberry plants which have been set out this
eason should have all blossom buds carefully season shound have pinched off, for if the fruit be allowed to ripen it pill greatly diminish their vitality. All runners which appear should be cut off up to the first of
July, after which time they may be allowed to run July, after which time they may be allowed to run
in matted rows, if care be taken to prevent them in matted rows, if care be taken to prevent thenim
from becoming too much crowded. In cultivating, use a very narrow-toothed culte
up as little ground as possible.
Asparagus should have the ground kept very
loose and mellow. After the first of June one shoot should be left to grow from each crown. All others mayy be cut up to the first of July, after
all cutting should stop for the season

There is still time to plant a patch of water and musk melons. Do not neglect this now, as the nice, duscious melons that will find their way to your
table in the fall will more thain repay you for the table in the fall will more than repay you
small amount of time and labor expended.


THE HOME-MADE STACKER.

These figures show that hay will remove from same value. It would not, therefore, be advisable for the Province to develop to any great extent the export trade in hay. Wheat and other grains also take a much greater amount of fertility out of the
soil than dairy products, while the amount take out by butter alone is merely nominal. Fat cattle are considerably higher than cheese or butter, yet much ower than the grains mentioned
the experiences of many farmers in the Province who have made a specialty of grain-growing and selling the raw products off the farm. They have
found that while the prices of these products have been gradually getting lower, the natural fertility of been gradualy getting coer,
their armshas been decreasing ata much faster rate, making their farms less productive and the business less profitable. The laws of nature are inevitable, and the agriculturist in this Province who imagines
that he can farm by selling off these raw products, that he can farm by seling of that his business has not ween prosperous, and that his lands have been gradually teer the soil by any system of farming
 rule, are expensive. The best thing, therefore, to
do is to carry on some line of farming that will not do is to carry on some line or arming that will not
reduce the fertility of the soil. A ystem of dairy farming carried on intelligently and practically will not reduce those valuable constituents of the soil. In fact, where this system is carried on properly the
fertility of the farms is increased and the land made more productive.
here There are a number of statistics given to show in 1883 , there were 635 cheese factories, and the value the cheese manufactured was $\$ 5,589,339$. In 1892 , here were 856 cheese factories, and the cheese
manufactured was valued at $\$ 8,509,939$. Cheesemaking is more largely developed in
some districts than others. Oxford some districts than orest
manufactures the largest quantity of cheese of any county in the Province,
it being valued at $\$ 847,6+3$. But in Leeas Sounty the value of cheese made per head of the rural population is
$\$ 37.00$, while in Oxford it is only $\$ 28.00$. The average per head of the rural The average per head or the whole
population is only $\$ 8.0$ for
Provine. If it equalled that of Leeds, Province. If it equalled that of Leeds,
the total make would be $\$ 40,000,000$. Ontario is considered to be a large Cheese-producingres, we are only mak ing about one-fifthof of what we whouk
make, if the farmers in every district make, if the farmers in every district
were giving as much attention to the were giving as much at one or two of
business as they are in one two the counties mentioned. It would ot ot
the wise to develop the cheese industry be wise to develop the cheese industry
to the extent we might be capable of ; to the extent we might be capabele of;
but there is room for considerable increase in the make withount overstocking the market. The quality of the goods must be kept up, however. Unless we do this, it woult, Be sater no
to increase the quantity. But at the present trate of progress, and with our
dairy schools and other means of indairy schools and other means of in
struction, we are in a fair way to still structhon, we are in a quar way or stil
further improve the quality of our
cheese and thus cheese, and thus enhance its value and
per bushel during the last decade, or about 32 per cent., cheese has only decreased from 10.45 to 9.5. per pound, or about 8.3 per cent., and creamery but
ter, from 21.33 to 20.59 cents per pound, or about 31 per cent. If the season of 1893 were included in the table, there would be a wider variation between wheat and dairy products. Wheat, on an average, hrought a much lower price in 1893 than in 1892, while the price of cheese was somewhat higher in 1893 than in 1892 . The facts given here are borne out by the actual practice of our successful farmers. In been made a speciulty during the past ten years, the farmers are, as a rule in better circumstances, are making more money out of their farms, and are not experiencing the "hard times" so commonly spoken off in other sections.

 amount of soil constituents taken from the land hy the removal of the different
given are merely for comparison, and show the relagiven are merely for comparison, and show the rela-
tive amounts of nitrogen, whospho: ics acid and
potash removed:
make it more nake it more in demand in the home market.
Ontario's climate is also very suitable for dairy ing. During thimate ineese season the nightstrare comparatively cool, and we have not so much of tuat
hot. muggy weather as our neighbors to the south, which is so unfavorable to successful dairying. Besides, our soil and climate are such that the best of grown easily. Our winters, though sometimes very Severe, have not been found a detriment to successwinter dairying. The experience of those who operative plan, for a couple of years back, goes to
show with that this branch of dairying can be carried on winters. There is farmer even during our coldest ment of the butter trade in this direction. We will ave more to say of the butter later on.
comparison of canadian and american ex-
The following statement shows that Canadd cheese exports have increased regularly since 1872,
while her butter exports decreased to $\$ 331155$ in while her butter exports decreased to $\$ 3,31,958$ in
$\$ \$ \leftrightarrow 1$ ) Since then, however, there has been a gradual Year ending
 feeding trials showed that whey was worth from seven to eight cents per humdred for mixing with cornmeal and shorts for pigs, when hogs bring the prices they now command. It behooves thase whi
 more cheme factory.


QUESTIONS AND ANSWERS.


## Veterinary.

"Quiz," Qu'Appelle:-1. "Please give cause, effect, and treattuent of black tooth in sucking pigs? Does it detract from the usefulness of the
animals for breeding purposes or lessen their selling value? Also are round black patches usual on and dam registered

1. Premature decay of the temporary teeth of pigs is due to some defect in the secretions of the
dentinal sac. If the teeth are loose they should be dentinal sac. If the teeth are lose they should be
removed with small forceps. This should be done especially if the gums are inflamed. It will not
lessen the value of the animals either for breedin lessen the value of the animals either for breeding or selling purposes. The permanent teeth will
appear in due time, and will likely be healthy and appear
remain so.
2 Blac
k spots, with hair of same color, will dis-
Small blue spots on skin with white hair. though not desired, are frequently met with in purebred Yorkshire swine

$$
\begin{aligned}
& \text { vine. Devbar V. S.. Winnipeg. } \\
& \text { A. De Mare. }
\end{aligned}
$$

LaME MARE.
E. J. H., Carnduff:-"I have a mare that goes lame on rough ground;
We are not good at guessing, and without a
fuller history and description of the case do not fulel competent to prescribe proper treatment.
RETENTIOS OF AFTER-BIRTH. L. O. LeMmetX, Joly, Man.:- What is the cause of our cows not cleaning ater calving. The
trouble is very prevalent this season: cows that trouble is very prevalent this season; cows that
seem strong and healthy, before calving. do not seem strong and healty, berore and fail
clean, and then give no milk
nothing. What will prevent it in future nothing. What will prevent it in future Retention of the after-birth is very common
among cows. The causes are not very well known. among cows. The causes are not very well known.
as it occurs under every condition of feeding and
management. The connection bet management. The connection between the fuptal membranes and the womb of a cow are very strong,
and in almost every case of premature birth the and in almost every case of premature of disunion is, very protracted. In such cases, the "afterbirth" is sometimes absorbed. but it ie usually expelled in a partially or wholly
decomposed state. The following are some of the otheralleged causes of retention of the "after-birth R pid contraction of the mouth of the womb: giving cold water to drink immediately after par-
urition: protracted and severe labor: abnormal turition: protracted and severe labor: abnormal
adhesion of the womb and ". after birth. The accident has been observed to be more frequent in Years when the fodder is not good, especiall when
it is mouldr. and it occurs more frequently in old cows than in young ones. When the "after-birth is retained twentr-four hours after part urition. the
fol owing drench may be given with advantage: folowing drench may he giren with adantage:
Epoom salts twelve ounces: nitrate of potass. one ounce: fluidextract of ergot half-an-ounce disisolve anl in one quart of hot beer, add half-a-pint of
treacle, and give in one dose. At the same time tie treacte, and got exceeding two pounds, to the extruledprortion of the "after-birth." I know that there
are objectious to this mode of treatuent. but if the weight is no heavier than that mentioned. it will do
no harm. and br affoning Fentle traction will tend toexpedite the removal of the fortal membranes the womb and the membranes carefully separated
from the cotyledons. This operation requiresia goud deal of patience and care. and should onlr be under taken by a person who has some koowtage the
anatomy of the parts. When the after-birth has
When hee remored by the hand in a decompsed state
the womb should be syrinsed with a sution of carbol
water

## Miscellaneous

S. K.-"As I am a little scarce of water near the
buildings in winter, having to let most of the horses buildings in winter, having to let most of the horses
and cattle go to the Don, about eighty rods away, and catcie go to the bon, about eighty rods aw fine weather and harm in stormy weather. When
the track is icy, if I had plenty of water, I would not the track is icy, if I had plenty of water, I would not
let them out of the barnyard from fall till spring. There are three ways I can get water: First, by
well; can get quicksand springs from 30 to 35 feet well ; can get quicksand springs from 30 to 33 fee
deep, which require to be curbed about 6 or 8 fee deep, which require to be curbed about 6 or 8 feet feet in them, which makes it hard to pump; also,
fe valves soon wear out. Second, by cisterns, the valves soon wear out. Second, by cisterns,
with eave troughs from the buildings; cisterns with eave troughs from the buildings; cisterne
would have to be cemented; do not know whether they would require to be bricked up before cement
ing. Third by digging a well about 240 rods from ing. Third, by digging a well about 240 rods from
the house and barns, where, I think, there could be the house and barns, where, than twenty feet deep, frst-class water got at less than twenty feet weep,
which, 1 am thinking, night be brought down by
iron pipes through the house cellar, and then to the iron pipes through the house cellar, anch place, they barn. If taps would work well in each place, they
would be rery handy, as we would not need to go out of either house or stable for water-winter or
summer. Now, as I have never had anything to do summer. Now, as have never had anyth to know alt about such things, I would like you to answer
in the first ADVocate which of the three ways you in the first ADVocATE which of the three ways you
think would be the best and cheapest, especially think would be the best and cheapest, espec, how
the size, cost and kind of pipe to be used; also, how
deep they should be put in, how long they would deep they should be put in, how long they woul
be likely to last, and if there is much danger of them filling up or not working well from any othe cause; how to fix pipe in the well where water be
gins to run. Not havinglevelled to the hill, cannot gell how many feet of fall there is, but am sure ther
ts a good deal. In the first place, the piping wil is a good deal. In the first place, the piping will
be down hill for about a hundred rods; then it would have to go up hill for about twenty rods, perhaps to the height of twenty feet; then the rest would be
slightly down grade; all through clay ground." The drilled well, with pipe inserted to where the The drilled well, with pipe inserted to where the water has to be elevated too great a distance to do by hand, a windmill should be erected and a
elerated, which will give water at any point desired Eavetroughing and cisterns are in use in some localitities, and when properly constructed, give
fairls good results. To make a good job it would fairly good resu brick it before cementing. The third method would be pretty expensive, as inchpipe would cost six cents per foot in Toronto, an would have to be laid below frost, say two and
half or three feet deep. There is a drilled well on the Nichol farm, near Newtonbrook, not far from Mr. Ks. This well had been dug 62 feet through
clay: 11 feet was then drilled through sand, where chater was found in a gravel bed. A windmill was erected: the water supply thus obtained was abundant, supplying the needs of a
$3=0$ acres: a heary stock is carried.

Wis. SнARP, 15t Hamburg Ave., Toronto.
Mber of clbic feet to a tor of hay. W. R. Alstin.-" Please inform me through the
FARMERE ADVicite what a ton of has put in : stack last summer would measure in cubic feet. lst. Good hay. 2nd. Mow-burnt hay
The usual estimate is a
The usual estimate is about shateet to the ton: impossible to give a general rule. for it will vary all the way from tow to orer tho feet, according to the
amount of tramping and the size of thestach. Mowburnt hay will
than gowid has.

## APIAR

Smokers When to L'se, and What to L'se in Them.

A good smoker is one of the essentials in any ances that a teekeeper can have. Iust thinh of
person in the midst of openinza colons und thit person in the midst of opening a colony and they tezin to eet rather angry. and he makes a grah tom

leather they could find, thinking that it would last onger than one with lighter leather, but in that soft and spongy, we need not care how light it is the working of the bellows causes the leather to crease, and the heavy leather will crack much sooner than the light. In purchasing a smoker, I do not buy one that iston small, ue the difference in price between a large and small one.
When and how shall we use them': 1 always use the smoker every time I open a hive: I think it pays; you don't make your bees so cross if you use little smoke when opening the hive. I ouce heard beekeeper say he never used smoke when he bees that hove; ivent smoke. They were the rossest insects I have ever seen, When the owner went to open a colony, he protected his head with a eil and his hands with gloves, and tied the bottom of his pants close, so no bee could get in there ; then he took off the cover of the hive and started to t hipulate the frames. The bees fairly poured out he was and tried to sting him allorer, but, of course him any beast that came within ten rods of him. I went home satisfied that I did not want any of the bee hat needed no smoke. I have worked among my bees for halt a day without a veil, but I always use a smoker. I don't advise working among bees without a veil over the face; I nearly always wear one, I never believe in overdosing bees with smoke he co a hive that 1 want to look into and take of as I continue to take it off, I gently puff in a little smoke just to let them know that I am around. a a rule, scarcely a bee will take wing : ther will sit quietly on their combs until I am through looking at them. If I happen to let a comb slip or jar against the hive, I will be apt to need the smoker Italians (the only hind I keep): if the bees are black they will be more irritable. I might tell how to use the smoker in driving bees out of section case Porter Bee Escape thi method is vers little prac ticed. The escape does the business so quickly and with so little trouble that I think very ferr bee supers.
What kiNi) of flel shotld be tred in smoker? I alwars use dry planer shavings: not those from A large planer used in dressing lumber-those are ing machine are just right: put a few in the hottom of smoker. then light a match and throw it in on working the bellows and get the shavings to become Thoronghly heated through : now till up the smoker
with more shavings and pack them as you till: with more sharings and pack them as rou fill:
keep ?ufting the bellows while you are filling, and when you have it filled place a few bench sharings. thoee made with an ordinary hand phane. on top, to
keep the emall shavings from being hlown through
the noze There are other things that makes gook smoker fued such as rags. rotten wod carpet felt, cedar
hark. etc.. hut, after trying all of them. Ilike the
shavins hest. If vou wete to ask Mr. Wm. Mc-
 say: First. Cedar hark : sewnd, cedar harh. and wond like dry codar bark for sumker tal. 1 bell. The late Mr. C,rneil, at one of our leseration Gor sumber fued was carpet folt that se the felt Aaper uod for putting mater arpets. The way he
$\qquad$




 1.4. - $-2-\frac{1}{2}$

$\qquad$

## POULTRY

## Away With the " Dunghill."

The Editor of the "Farm Poultry Monthly" thus describes a recent visit to
packing-houses of Kansas
"Armour \& Co. are killing and dressing three would pay you to see their place, you would get some interesting facts," wrote Mr. Hawk, of Kansas City,
when we were considering the advisability of a trip when we were considering the advisability of a trip
West this winter. A few dass later, while turning over the pages of the Midland Poultry Journal (oof Kansas City), we came upon an avertisement of
Messrs. Armour $\&$ Co., urging farmers to get
 Indian Game mates to improve the quality of their ?There is a meaning in that, if we could only get at it. Business men are not, as a rule, paying, rdver-
tising bills without there being reasonable grounds for expecting returns in thee engapeofon protits,
Armo to their beef, mutton and possing and and shipping. One day last fall there came to the slaughter houses, among a great many other coops of chickens, several coops containing " culls" from
a farm where are kept W Wandottes only. Instruc tions were given to have that lot kept together and
themelves, so that the might be compared by themselves, so that they, might be compared
with the common "dunghills," of which the bulk of the receipts consisted. When dressed and arranged for comparison, it was easy to see that the pure-bred Wyandottes were far superior in plump-
ness, fullness of breast, smooth, fair skin, yellow legs, -in fact, that it was a far better average lot
of dressed poultry than the common stock. Mr. of d dressed opoultry than the common stock. Mr.
Armour's attention was called to the display, and Armour's attention was called to the display, and
he instructed the foreman in that department to pack five cases, of one handred pounds each, ship one of them to each of five commission houses at
different points in the East, and hand him a special report of the returns-also reporting prices returned on common chickens sent to same places the same
day. When the returns came in it was found that day. When the returns come in it was "A Mo. 1 ,"
the five cases of Wyandottes graded as a A No and the price was three cen
for the common chickens.

What an object lesson! thousand head a dav-six to ten tons. Calling it an average of eight tons, three cents more a pound
makes a difference of $\$ 880$ a day - hundred and forty-four thousand dollars a year. Is it any
wonder that they urge farmers to improve the quality of their stock
If it is woth
If it is worth the while of Armour \& Co. to pay
advertising rates to get that advice before the advertising rates to get that advice before the
farmers, how much more it is worth to the farmers to heed, that advice, and improve the quality of
their stock! The bulk of that additional hundred and forty-four thousand dollars a year goes into missockets of small parmers. cent. for killing. dressing packing and shipping, that Armour \& Co. get. 1 .
Armour $\&$ Co. get but eight cents a pound for the Armour stuff, they can pay the formers but six and a half or seven cents a pound for it:
cet eleven cents a pound for the if the
a $N$, the get eleven cents a pound for the "A No. 1 " lot, cents for it. It costs as much, and takes as long,
to kill and pick a scrub as it does a pure bred -and
 cents a pound mare for the good stuff, they get their
commission on a third more returns: but the farmer gets the full third more. It costs him no more to hatch and raise good stock than it dite cents (probally th thirty-three and a third per cent.) more a
pound for it. ney to get that one object lesson. could walk through the cold-storage room, where
is about 300,000 pounds (a hundred and fifty tons! is about 300,000 pounds (a hundred ano fistyfons.)
of dressed poulty and game, the good stuf care-
fully wrapped in paper and packed in boxes read for shiping. EEach box has stenciled on it the kind
ind tuality of the contents ; as, for example. "4
 carload of lean, skinny, things, piled up. "What
are those ", we asked. "Those
are fore soupers': three
arents a pound for those," said our guide Now, it cost as much to coop and send in thosel lean
"soupers as it didto coopand send in those "ANo. 1 "
Wypars Soupers as ait dia to coopandsest as long to dress,
Wyandottes and it takes just
pack and shin them The farmer gets almost pack and ship them. The farmer gets almost
nothing for the e soupers." he sends in, and Armour
 soupers," we could well underst and why
(o. advise farmers to improve their stock Fortunately, the writer had his heavy ulster on
else he would have invested in severe cold, se
many interesting things atracted uns in that in many interesting things attracted us in that im
mense cold-storage room, where the thermometer


great pile of "soupers" "ontrasted with the "A No.
chickens. The former bring three or four cents
post pound; the latter three times as much-and iscost just as much to hatch, raise, feod, coop, at it does an "A No. 1 " thoroughbred. He would be dull, indeed, who couldn't see
which would pay him the best to raise."

## ENTOMOLOGY

The Periodical Cicada or Locust. These curious and wonderful insects appear in different parts of the country at definite interval of either thirteen or seventeen years; hence they
are known as the Thirteen-year (Cicald trectecim) and Seventeen-year (Cicada septendecim) Cicadas, Their appearance began to be noted in the last ce Washington made an extensive study of the creatures, with the result that the different brood of them are now numbered and the localities wher they occur have been mapped ; so that the years in which they have appeared is possible to foretell where a brood will appear above ground at a certain time in the future century. There are thus num bered and mapped thirteen seventeen-year brood and eight thirteen-year broods of the insect in the United States. I find no record of the occurrence will appear above ground-one (brood XII.) seventeen-year and one (brood XVIII.) a thirteenyear brood. Brood XII. will appear in N. Car.
Ind., Mich., Va., Md., Northern Penn., throughou New Jersey, in Connecticut, and all along the Hudson, in New York. This brood has been observed in some of these cacailitis every seventee
years since 1724. Brod XVIIT is Western and Southern one, occurring from IIIIinios south ward and thence eastward to the Atlantic coast of th
Carolinas. This brood was first noted in 1803 Next year broods II. and XIII. are expected; the first occurs in Georgia, the second in lowa. One
or more broods will appear somewhere in the or more broods wir apear somewhere in the
United States every year during the present century; but none will agai
untill $1888,1899,1900,1902$.
The sharp, shrill screech of the adult insect wil thon be rinfing in the ears of many who may reat
thifferet parts of thited States. The adults appear in the latter part of May and in June. Egg-laying soon begins; and it is by this
operation that they do most of their damage. The ofgration laid in slits cut in the twigs of trees-both
egrit and forest trees.
However, the injury then ergit and forest trees. However, the injury then
fruit in done is rarely so great as to necessitate the use of
remedial measures; so, ordinarily, the insect need cemeseno serious alarm. There is but little danger
of their spreading to other localities ; the areas of their spreading to other localities, the areas over which they appear be injured by it. The eggs
Field crops will not hatch in about six weeks; the little creature drops to the ground, and, burrowing therein, begins its
teventeen years of underground life. These seventen yea upon tbe roots of vegetation, often
nymphs feed going to a depth of several feet. The years roll
on. What sort of a calendar can the little buried nymph have? What a Rip Van Winkle sort of an
awakening it must be when, after nearly two de cades have passed, with all the marvelous changes in this busy world above them, the nymphssurface, crawl up the trunk of some near-by tree, and there undergo their final transformation to the winged state. They can now fly about and view me changes confided their embryonic forms to a slit in $a \mathrm{twig}$, nearly a score of years before. Ordinarily in coming from the ground, the nymphs do n
ontinue their galleries above the surface ; but it has been observed that in low, flat, wet localities, they often do continue the gallery from four to six inches above the ground, forming a sort
himney in the top of which they may be found in May. The adult insects live but a few weeks at
nost; they do not return at sunset to the holes most; twhey the young emerged as some have hought. It seems strange that it should require
nearly a score of years of toil beneath the ground to prepare these creatures for their brief residence
among nature's beautiful things above ground.
 companied by a colored plate, can be found in the Annual Report of the Commissioner
ture, at Washington, for $1885, \mathrm{p} .233 .1$
The chinch bug has heen the cause of much loss o the farmers of Kansas and other Western states.
Many remedies have been tested, but none have Many remedees
been sefective as that discovered by Prof. Snow.
of the Iniversity of Kansas. This remedy consists. in spreading an infectious disease among he chinche higs. Bugs whed in the fields, and in turn infect
disease are place
others. So successful has this treatment proved hat we are informed that in some counties people
are imployed to make a business of applying the
infection.


THE STORY A Curate's Temptation




 Seeing hinagagatulate you, Mr. Oampion ; you have a son
"And my wife,
 her! "Certainly but do




 We shall manasionow." yorrailf, darasest: we ghall do eplendid.

















 a more oongeniai sphere or work isew here Weighing the conequeneoes he prompty resighed hif charge













"Certainly not to you, sir, rail the garate in a tone that

THE FARMER'S ADVOCATE
June 1, 1894
 Wiveswase



time", "By no means, my friend. My work has always been God's
work before worldy affairs, and I judge by your garb that you



 the labores











 wind drove
had tanteed
a.onfetio
the hungry







 tion was before him. On the one side was his upright nat
and on the oher his love for his helpeses wife and child.
and onsciouly, he paced onwards until he reached his home. to be continued.

The Land of Used-to-Be. by james whitcomb riley Beyond the purple, hazy trees
of summer's
tmotst boundaries, Beyond the sands-beyond the eseas-
Beyond the range of eye ike these
And only in the reach of the And only in the reach of the
Enraptured gaze of Memory
There liesal and ong lost
The land of Used-to-Be.
A land enchanted-such as swung
 To Jason in that mystic tongue
That dazed men with its melod
and O: suach a land, with such ,
Kissing its shores eternall,
Is the fair Used to-Be.

A land where music ever girds
The air with beltso s singing birds,
And sows all sound with such sweet word And sows all sound with such sw
That evenin the to of herds
A meaning lives as sweet to A meaning lives aps iveet to me;
L.ost tauthter ripples limpidy
From lips brimmed over with the glee
Of rare old Used-to-Be.
lost laughter, and the whistled tunes
Of boy hood's mouth of crescent runse That rounded, through long
To erenading pleniilunes-
When starlight fell
onily
men


O! land of love and dreamy thoughts,
And shining fields and hady shots,
Of coolest. greenest grassy plots,



## THE QUIET HOUR.


And forth to the flight are gone
A pace in the ranks awaits you,
Lach man has some part oplay
Each man has some part to play;
The Past fand the Future are nothing,
In the face of the stern To-day.
Rise from your dreams of the future-
Of gaining some hard fought fleld;
Oof
Of storming some airy fortress;
Or bidaing some dieds of glory,
Your Funtur has dion (God grant it may !),
Of houor
But your arm will neever bestronger
Or the need so great as To-day.
Rise! for the day is passing;
The low sound you scarcely hea
Is the enempy marching to battle-
Arise! for the foe is here!
Stay not to sharpen your weapons
Wr the hour wast of a coming battle,
You from dreas wake to find it past.
Manliness and Christianity
Is Christianity opposed to manliness? Most assuredly not! And yet some very excelent people seem His Gospel he is to become a poor, miserable weakling, without back bone or bravery ; a nerve less creature, ignorant of angerous and misleading mistake than to suppose that a sallow-visaged dyspetic, with a morbid solemnity of manner, more acceptable to ch, whose very sport is con hearted, ay a manly, muscular Christianity.
secrated byristian life is no dark sepulchral ex istence; it is full of buoyancy, freshness and vigor strength; they shall mount up with wings as eagles; they shall run,
shall walk and not faint
shall walk and not faint.
We must rid ourselves of the erroneous idea We must rid ourselves of the erroneous idea think for himself, and that he bids farewell to al secular literature, music, and art.
no man is so well able to enjoy life, and to no man is so well abe and blessings, as a thoroughappreciate whole-hearted Christian.

Energetic Courage.
There are certain conditions of affairs in which when conformity is not only a weakness but a sin. Great evils are in some cases only to be met by re-
sistance: they cannot be wept down, but must be sistance; they canl the great reformers and martyrs
battled down. All were antagonistic men-enemies to falsehood and weil-doing. It is the strong and courageous who
lead and guide the world. The weak and timid lead and guide the world. ; while the life of a
leave no trace behind them ; single upright and energetic man is like a track of
light. In a righteous cause, he stands upon his courage as upon a granite Goliath, strong in heart, though a host be encamped against him-"Stand fast in th
[Smiles.

Christianity in Business
There are many Christians who, in their afflic-
Their trials tions, are thoroughly submissive. Their trials
make them better. They bow before God when He touches their hearts, they say and feel that He does all things well. But take these shere is their trouble them in this
Christian submission then? Apparently, they are
and no better than infidels. They have not educated themselves to yield their wills to God in their
ness affairs ; afflictions there cause them, as it ness affairs; afflictions there cause the
seems, to grow worse and worse all the time. seems, week filled up with selfishness, and the Sun day stuffed full of religious exercises, Wany people good Pharisee, but a poor Christian. with which to wipe out the sins of the week. Now, God's alta stands from Sunday to Sunday, and the seventh day is no more fhole seven are for religion, and one for rest. The whole seven are for
of them for rest.-- $\mathbf{H}$. W. Beecher.

Want of Self-Knowledge
Half the evil in this world comes from people not knowing what they do like, not deliberately setting tll people enjoy giving away money, for
joy. An
instance; they don't know thit they rather think they like keeping it; and they do keep it under thi false impression, often to their great discomfort
Everybody likes to do good \& but not one in
grask. hundred finds this out.-|Ruskin.

Failures.
The only real failures that a man makes of hi
ife are either to live a life of indolence, and not life are at all, or to follow unworthy, aims and
strive
strive for what is base or paltry Then, whet he he succeed in his purpose or not his the fathure i
accomplished, for he is traveling on a downward accomphsu, as long as he looks upward and whes
road. But,
onward, as long as his intentions are rood, and his onward, as brave, he cannot wholly fill. tholy: h
endeavors brest
may not reach that which he so eagerly disires.

MINNIE MAY'S DEPARTMENT How to Keep Friends
BY MARY R. FERGUSON, SMITH'S FALLS, ONT
 "And keep thy friend under thy own life's key", "And keep thy friend under thy own mife of us find it much harder to keep our friends than the poet thought when he penned to attempt to lay down and it seecial theory or plan, for, in dealing with this question, only very practical methods must be used to gain the desired end
Often we find friends like money, "Easy got,
easy gone." A smiling face and pleasant appeareasy gone." A smiling face and pleasant appar-
ance may attract, but it requires more than these to keep friends through cloud and sunstane, happiness
and sorrow. We have seen instances of rapid growth of friendship, something akin to Jonah's growth of friendship, someth rays of misfortune,
gourd, but when the strong adversity or sickness appear, where are these
friends? Alas! like the gourd, they have vanished friends? Alas! like the gourd, they have vanished
from sight, and only a void in the heart of the from sflicted or bereaved one marks the spot where once they stood. But do we, in our hurried, every day
life, realize the full importance of the meaning of life, realize the fsil it a name to be given to every
that word? Is casual acquaintance? Do we rightly distinguish
between friend and accuaintance, or do we confuse between friend and acquaintance, or do we confuse
the individuals as well as the words? Very often the individuals as well as the words
this is the case, and I believe it to be one reason we find it difficult to keep our so-called friends. We cannnt choose our relations, but we have
full liberty to select our friends, and may we be full liberty to select our friends, and may we be
guided wisely always, remembering that "true worth is in being, not seeming.
It is a very important matter, especially in youth that the associates we cla young people, just merg ing into manhood or womanhood, place someone on the highest pinnacle of friendship, and believ in him, pernaps more unforseen circumstance tha the friend they surrounded with a halo of goodness and truth, and almost idolized, lived only in the magd best feelings receive, infinite harm is done and injury inflicted, which time alone can heal. The true basis of firm friendship is three-fold, con sisting of mutual love, mutual respect, and mutua
forbearance, and perhaps the last is not the least forbearary element. How often, in moments of necessary eless or impatience, we utter words that almost as soonll, or, at s s me intended or supposed slight, we give vent to our outraged feelings, which had we the forbearance to restrain, would bind ou friend to us withather element we find necessary to
There is anot exercise in our intercourse with our friends, and that is-faith in inem. doubt their goir on good actions, thinking they are just doing kind acts to further their own end, or gain popularity, we will find ourselves in a ver unenviable fame a deeper than others and so for set "to honor them with truth, if not with praise. Any secret or confidential information confided to us by our friends shour be guilty, on any account, and especially fo Never be guily, of any accoureaking the imposed trust, but guard it as you would your friend surse (and, indeed, upon it rest all the others) is sincerity Is there anything so disastrous to our friendship anything that so easily severs the silken tie tha hinds friends together, as to find that our supposed
friend is insincere? With what pain we murmur, Tekel! Tekel
So then, first, if we wish to keep our friends, let us
what we expect them to be-sincereinall we do and be what we expect them to be-sis the constant adaptations of action to the right intention will wintheday. Then, again, remembrance and practice of the Divine injunction: "Do , unto others ane another's burdens," are sure means of retaining our friends. Let us be careful of others feelings, always rememhuman family are very much alike in their sensibilities, feeling those things most keenly which touch on their own peculiar troubles
There is a wise old saying: "Never mention murder for a like crime." So, in conversation, keep as far as possible from those subjects you know will wound the feelings and lay bare the family skeleton. ship than that expressed by the poet, Tennyson, in
his "In Memoriam," dedicated to his dead friend. He gives us a glimpse of what we ourselves should
be, if we would have the friends of our vouth lifelong friends. and climb with us the "altar-stairs of ang , As we pass from youth to maturer age, is
ife. An
not our friendship often purified from dross by the
Procter writes:- 1 - hall know by the gleam and the glitte
Wriall know by the gleam and the glitter
of he golden chaim you wear,
Br your heart calm strength in loving, $4=2$ -hine bright, strong golden chail
hid blest he cleaning fire,
ind the furnace of living pain.

UNCLE 'TOM'S DEPARTMENT

My Dear Nephews and Nieces :-
All too soon has May's prophecy been verified, departed, we joyfully greet the coming of the "Peerless Goddess of the year." To those of my boys and girls who go to school even this lovely
month will pass too slowly, because they are look month wil pass too slowly, because they are look intervening day seems, oh ! so long. To talk of this delightful time but makes the longing greater, and, as the leave the subject.
I promised to tell you some flower legends, and when more appropriately than now; but I must ble at my taking up too much space. It is said that all the flowers were growing in a beautiful garden, in which their Maker used to walk, and as He passed among them each flower
stalk"; but, as the legend says

$$
\begin{aligned}
& \begin{array}{l}
\text { The lily was vain of her beauty, } \\
\text { And, as His step drew near, }
\end{array} \\
& \begin{array}{l}
\text { Stood proudly erecet and stately, } \\
\text { And said } \\
\text { The Master gazed fairest here. }
\end{array} \\
& \begin{array}{l}
\text { The Master gazed on it sadly, } \\
\text { In Hisgaze grief gathering slow } \\
\text { Till the lily bent before Him, }
\end{array} \\
& \text { The lowliest of the low; } \\
& \begin{array}{l}
\text { And he tear that fell on its petals, } \\
\text { As sady He turned away, } \\
\text { Mat ob foud alitering dew drop } \\
\text { In the lily's heart to-de }
\end{array}
\end{aligned}
$$

The moral in the above legend is self-evident Perhapsnoneisagreate
favorite than the "little flower with eye of blue, f it many legends ar told, and I shall give ou two of them.
One day, in Germany taking a farewell walk with his ladylove, when passing by a swiftly rowing in the water pretty flower, and re uested him to get it for qer. In trying tograsp and fell into the water but before being swep reach he managed the flower to her, and his last words were, "Forget me not! so the flower has eve When to flowers so beautifu
The Father gave a name, All timidly it came; And, gazing at His face " Dear with a tender grace: Alas. I have forgot."
The Father kindly looked on And said, "Forget Me not The June roses have not yetstarted to bloom,
but we have many othe beautiful flowers to con sole us during their absence. I must tell you what
a delightful drive I had one day recently. Our road lay near a river which flows between two could hear its murmuring, it was only occasionally that we caught a glimpse of the bright, sparkling water. The trees on either side rotect us from the sun, and flowers and ferns brightened the landscap all around us. Returning in the evening, the song of the whip-poor-will added to our pleasures, and reached home-the dusty old city once more.
One of my boys wrote me some time ago and
told me he works every summer to earn money to go to school, and is now preparing to enter the
Normal School. Well done, Harry you are made of good material, and are sure to get.along; I admir your spirit, and wish you every success. I would like to know what place you will occupy ten years
hence. If Uncle Tom is a true prophet, it will not be a lowly one.
have been so busy lately that I neglected writ ing until almost the last day, and now to hasten, but you will soon hear again from
P. S.-Uncle Tom proposes to hold a Word Com petition, and trusts it will prove interesting to the nephews and nieces. A prize of $\$ 2.00$ will be give for the longest and most correct ist of words forms from the letters contained in the two words, July 3rd.

1. Write only on one side of the paper than it appears in Firmer's Advocate.


THE DEATH OF MARK ANTONY.
last bitter stroke of misfortune. Why should he onger live? He commands his trusty servant, Enos, duty, falls upon his sword and dies at his master's feet. Thereupon Antony inflicts the fatal blow upon enself. As his life ebbs slowly away, Cleopatat. sends, begging him to instancly carried thither, but, as she cannot descend, lest Cæsar's minions take her, it was neces-
ary to draw the dying man up into the monument; ary to draw the dying man upinto the monument;
his she and her two women, with the greatest difficulty, accomplished. Here Antony died in her arms, shortly to be joined in the spirit world by
her whose love undid him. The spirit of this movher whose love undid him. The spirit of this moving scene is vividly conveyed in the verses
General $W$. H. Sytle, some of which we guote:

I am dying, Egypt, dying, Ebbs the crimson life tide fast,

Listen to the great heart merects

Let not Charars servile minion:
Mock the lion thus laid low
T, was not foeman's arms that felled him


As for thee, star eyed kigyptian,


Give the Cossar crowos and arches
Let his brow the laurel twine,
Triumphing in anave triumphs,
Pompeo Battoni was born at Lucia in 1708, and died at Rome in 1787. He was one of the most cele brated artists of the decadence, and
works have enjoyed great popularity.

## Puzzles.

RIZE PUZZLE.
RIZE PUZZLE. My First is "something lean and rough
 Now, for my THiproved write at choure.
A clause that's added to a bill.
 For it is " brisk and lively"" dame,
Or, should you meet a protty dame
Perhaps this Last may be her name.
ive little patients here $I$ have,
In a precarious state
My Firg, thoug nigh to death alway
In a chair can sit up straight.
My Skoond I visit much indoed,
My THirD is al ways in good spirits,
My Fourrn in scowls and frowns appear
My Firth you cannot make him straight,
In two hell always double.
3 Trion
Oh, how many tales of m By thenirich and the poor, by or the young and the ond, Although I have been from
croation or orman;
No lege have I got, yet how
 ada Smithson -Charadz. My Finst is "to study care Just as my cousins do;
My SEOND
Sis "an inhabit Who to his country i My True; THRD is a very small in Which works almost con My whous is what we a must use
When writing to Uncle $T$.
ADA SMITHBON. ada Smit My Firgt is to conquer, My Toracoplen in paptilied
To a great work of art.

Answers to May Is Puzzles.
 2-X. L. C. R.
$\substack{\text { 3-IOV.K. } \\ \text { 4-Porsist. }}$

The materials for one are primitive-stout The materials for one are primitive-stout
hread, pasteboard, pine bark and a little varnish. Soparate the bark into thin flakes, which is easily
done ; select nice, smooth pieces, and cut leaves out done; select nice, smooth pieces, and cut leaves out
of them. I chose my model, oak leaves, from nature, and marked the meins with a penknife. Having cut the pastebonard to the desired shape for
the frame, sew on the leaves, taking care that each the frame, sew on the leaves, taking care that each
one overlaps the other so as to hide stitches and one overlaps the other so as
cover the erond wrork. To finish e the back and put in the picture and glass, paste stout lining, in
which a slit has heen cut for the picture, over the whick, taking care that room is left for it to slide in and out. If the picture is to be a fixture, one may paste ail together It if the frame is to stand on a
table or thacket it must be furnished with a stou table or bracket, it must be furnished with a sto support; a piece of thin board is best. To hang, and
this way is easier, attach a cord. Varnish the frame afterwards.
Another frame is made out of cork carpet-lining
often packed around bottles. This is gilded, and often packed around bottles. Thns for turpentin
need not cost more than a few cents nend varnish, and perhaps five cents worth of gild ing, in powder form. But that is not me cing cost
for my latest achievement in frame making for ming atest
nothing but alittle time, trouble, and ascratchor two. Choose piecesof board the covero of a dry-goods box will do and fit together for the tramest making
a groove at the back for the picture to rest it. If you are accurate the corners will be little trouble; but, if not, and if theyl look somewhat unsightly, it will
not much matter as the wood will not show in the not much matter, as the wood wil non show mosses
completed frame. Gather the lichens and which grow on oid posts and trees, and glue them securely over the frame. You will have a pretty
and rustic, yet artistic, frame. The Housekeeper.

Do not be led astray by reports ciroulated throughout the

# BINDER - TWINE <br> Is probable. 

We will have ample supplies to meet all requirements.


Low Prices. Standard Brands. Liberal Treatment.

Blue Ribbon and Redcap are Still Unequalled. CONSUMERS' CORDACE CO. (Litd.)

New York Life Building, Montreal.

## BINDER= =TWINE

Grand Dispersion Sale
JERSELS, HOLSTEINS, SHROPSHIRE \& DORSEE HORN SHEEP

JOSEPH STRATFORD, Brantford, Ont.,

 This Sale will offer an opportunity for Canadian farmers to put in a foundation
stock of any of the above, at prices they have never been sold for or offered in


 Kingdom. Watch for ate later on, and kind, and from the best flocks ever sold
of buying, at farmer's prices, the best
in Canada. HORACE N. CROSSLEY, THR TROTTING STALLION MORELIERT 9337, SANDY BAY STOCK FARM, SHIRES, HACKNEYS, AND COLLIE DOGS.


10 | N, |
| :--- |
| Cl |
| H |
| T, | WANTED TO PURCHASE,

PURE
BRED
KERRY BULLS AND HEIFERS , Monkes D. McEach han,
|FOR SPRAYING FRUIT TREES, FOR SPRAYING fruit trees,
$-\quad-\quad$ OR SPRAYING cattle for the HORNEエY And for a general purpose machine, the Lewis
combination pump, the Wonder, onticed in the
Advo

 | the $\begin{array}{l}\text { the maret. Wri. Wri } \\ \text { for particulars. }\end{array}$ |
| :--- |




\section*{ IMPORTERS AND BREEDERS.} | PINE GROVE | Emarivizess | Laurantian |
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| STOCK FARM | STOCK and DAIRY FARM | Stook |

STOCK and DAIRY FARM STOCK FARM,

SCOTCH SHORTHORNS. The imported Cruickshank pull Grandour is
at the heed of this herd of Imported and Homebred Cows and Heifers of the most approved
Scotch families.
ALEX. NORRIE, Manager. Shorthorns, Shropshires and Berkshires



## Laurentian Stook and

 Ayrshires, Jerseys and Berkshires. Imported Fmperor at the head of a grand
ot of Imported and Canadian-bred Ayrghires


## THORNCLIFFE STOCK FARM!



IMPORTED SHORTHORNS Ingleside Farm, WILSONN SCOTCH SHORTHORNS. Imported stock from the herds of Wm. Duthie
and W. . Marr for sale; also Canadian-bred and . Marr for sale; also Canadian-bred
from imported bulls and out of imported dams.
Farm one mile from G. T. R. station.
$7-f-\mathrm{m}$ WESTRUTHER PARV $\begin{aligned} & \text { Herd of Ba tes } \\ & \text { Shorthorns con } \\ & \text { sisting of oxford }\end{aligned}$ Waterloo, Gwynne, Darlington, and othe
familices, has outgrown the place and must be
reduced in numbers. Four yeare reduced in numbers. Four yearling bulls and
a number of feates for sale, at lowest prices
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