## PUBLISHED EVERY WEEK. \$1.50 PER YEAR.



Vol. XLVIII.
LONDON, ONTARIO, JUNE 12, 1913
No. 1081

AKE a good look at this immense plant. It is the home of the Canadian Gental Electsor Company. As you can easily see, it represents a very large investment. And- Oprotect the r property - make protection doubly secure - the Company's managing officials \%peced file most durable roofing on the market, viz:

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, exatize

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HE cost of maintaining 33 miles of concrete road in Wayne County, Michigan, does not exceed $\$ 6.00$ per mile per year.

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344

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## Startling

Engine Facts


VERY FHW Young farmers starting out are fortuate
enough to have their land and buildings


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Will protect those dependent upon you, and in after
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Vol. XLVIII.

## EDITORIAL.

Make war on all noxious weeds at this

The better our farm methods, the less dependent we are upon weather conditions.

In some localities of Western Ontario the white-grub pest has become a menace. Ol pastures breed them by the million

Keep a dust mulch on the suminer-fallow and hoe-crop land. It conserves moisture and ensures a better crop. $\qquad$
During the next week or two is a good time to sow some turnips. Even though a good crop of corn is expect

Official testing of pure-bred dairy cows, un der the Canadian Record of Performance, is in creasing with such rapidity that the Live Stoch Branch can scarcely keep up with it. More in spectors are being added every year.
(inited States President Wilson has issued trumpet blast against the tariff lobbyists Washington as being "numerous, industrious and insidious." The latter two of those character izations would apply to lobbyists everywhere.

The lobby of tne Big Interests, which use loth political parties as suits them, must be re sisted by independence of thought and action among the electorate. Rules against lobbying
would probably be of little avail. An irresistible would probably be of little avail. An irresistible
force of unfettered public opinion is the best force of unfettered public opinion is the bes

The season for fitting stock for the fall exhibitions is at hand. Here is where the skilful feeder scores. A novice cannot lring his stock out in the bloom to do themselves credit, and ho runs far more risk of ruining his animal's usefulness as a breeder. The putting on of all the finish that the animal will carry and doing It without injury to it, is one of the fine points many game which it takes time to master, and heing overdone.

Thoroughness often counts for more than method. We once heard two experienced Ontario ing. One always planted his about the first of ing. One always planted his about the first wanted to gain time and was willing $t$ having his crop cut by frost, claiming that it having his crop cut by frost, claiming that it
always came on again and beat out the latersown. The other wanted the ground warm, and depended upon a rapid unchecked growth. Both claimed to have usually raised the best corn in their respective neighborhoods, and both laid much stress upon their time of planting. Tw prerience. Perhaps the real secret was not the date of planting at all, but rich soil, good seed and thorough cultivation. Experience does not

LONDON, ONTARIO, JUNE 12, 1913.

The Bankers' Lobby at Ottawa. ittle else, it ision of the Bank Act accomplished in bold relief the methods of the parliamentary lobby. Patient, ingenious and clever, suiting its action on the principle of all things to all men, it often succeers when it seems to have fafiled. Legislation has a long and tortuous course through parliament. If one move fails the representatives of the Big Interests have try every move fo try another. And they do try every move from the Committee stage to the before the last dog is hund 1 ag mendous force of public oninion that eannot at least partly puchred out of its purpose be a sufficiently adroit lobby. The revision of the Bank Act is a case in point. While the bill was under discussion in the Banking and Commerce Committee, the Bankers' Association was represented at Ottawa by five eminent King's Counsel and several parliamentary agents. As a rule they did not show their hand too conspicuously, but were always ready with a timely word or suggestion to talk members privately into line and keep tab on their attitude. When the division bells sounded their whip was on hand to fill the back benches with members who seldom attended the sittings. These back benches wefe usually numerous enough to turn the scale when progressive claises were being voted upon, and when the bill emerged from the commitee after weeks of evidence and consideration, il embodied very few additional amendments of importance Nor was it much improved hy the Committee of he whole House. To his provision for a com pulsory shan auditors should be chosen from a selected list approved ,y his department. Major Sharpe was so well satisfied with this plan that he dropper his amendment 'proposing a court or commission and no one else took it up, notwithstanding that public opinion has been asserting itself in favor. Another amendment, whose passage was probably assisted by Mr. McArthur's testimony before the Committee, iorbade bank ofticials to accept presents oi stock from com-
panies whose operations they were financing. There was a provision requiring that a detailed statement of the financial condition of the bank be surmited the shareholders annually, another requirg be wiring the banke notes berore reisse, onsfice in every province where they do business. The concesprovince whe the public were not much sions thus gained by the pure were not much the b,ill has still to run the gauntlet of the Senate, that hoary bulwark of vesterl interests. The Senate amended it by cutting out the last three concessions, and on the refurn of the bill to the Commons the Minister of Finance condoned and accepted the changes, most of the government and nearly all the opposition members voting to sustain the Senate's
amendments. This left the bill only a little better than the Bank Act of twenty years before It is still very largely "a Banker's Bank Act." Let no one suppose, however, that ground has not been gained. The public has just begun to a waken on the question, and by resisting the just demands of the people the Bankers have stimu tail their privileges at the next revision, if not
sooner. Already it is making itself felt. As tlie Ottawa despatch in the Toronto World put it: "Growing dissatisfaction with the fallure of parliament to deal with the grievances of the people when revising the Bank Act was evidenced in the House of Commons by a somewhat sense. tional debate, and a vote which cut a zig-mag line across the two political parties." The de bate was characterized by very plain speaking Arthur Meighen, a prominent government supporer, deplored the easy access which the lobbyists had to members of parliament, and believed their activities. When the to be placed upo the House, he understood, the solicitor of the Banks sat on the floor of the Senate inald 'the rail, interrupting and interfering with the members of the Senate who desired to discuss the l,ill. J. B. Taylor said the lolpby had been very active and persistent in the Banking and Commerce Committee and the corridors of the House. "We know many of these gentlemen by sight," he stid, "and their activity has been very remarketble.'
F. B. McCurdy, who has put up a splendid fight on the public behalf, complained that nearly every progressive amendment offered in the Committee had been voted down by mombers trought in for that purpose. . Mr. MeCurdy urged the appointment of a Monetary Commission to whe the now heve W. F Me also favored such we commission.
Another significant statement , was that of Hon. Mr. Oliver, who asserterd that it took courage for a member to declare on the floor of the House where he stood on the banking question. A member took chances in opposing the banks.

Such, then, is the situation admitted by the more candid members. With fine-spun definitions of lobbying the puilic have no conbern. It may not be lobbying, for instance, when an avowed corporation counsel, sittifng on the floor of the Banking Committee, writes out questions nd hands them to a sympathetic member to ply
witnesses with, but it is a means of serving privileged interests all the same. However, it is all over for the present, and, having drawn attention to the means by which the popular demand was resisted, we may content ourselves with mentioning the names of the eight government and two opposition members who voted to esist the Senate emasculatory amendments :
Bennet (Calgary), Buchanan, Emmerson, MacLean (South York), McCurdy, Meighen, Nickle, Sexsmith, Stevens, Taylor

## About Weldwood.

rrom several quarters a desire has been exractical farming puthish more about our own that readers were ieing bored with references to Weldwood but it seems not, so far, at least, as he localities in question are concerned. For unately it is convenient to oblige, for there is an subject casier to write about. We do object, however, to publishing scrappy discursive notes about things in progress. We like to give facts and figures about improvements made, crops raised, or stock fed, and it takes time to sum wa expect to have considerable material in the we expect to have considerable material in the

The Farmer's Advocate and home magazins.

## ampe Acricultural

PUSLIEHED WBELE BY
E. WILLIAY WELD COMPANY (LHITED)

JOBN wELD, MANAGĒR.

last summer. A house was built, also a dair and ice house, and a round cement water tank
for barn supply. An orchard of 850 trees was planted ; five hundred rods of woven-wire fencing rected, and erected well ; a couple of miles of ld fence were torn down, and the fence ottoms cleaned up; eight acres of bindweed was summer-fallowed, being cultivated eighteen times to a depth of about four inches. Sundry minor improvements were also effected. This meant year when it was difficult enough to dispose of ear when it was difficult enough to dispose of
ordinary farm duties. Crops last year were fair on the average. Hay was good, yielding some eighty-ive tons. Spring grain started well, but grubs and wireworms played havoc with some of it, the land having been plowed the previous year out of old pasture. The clason was too wet for corn on close-loottomed such as most of ours. Still we had
clay a fair crop of ears, and, on part of the soil that was warmer and better drained than the rest, quite a heavy crop of hoth ears and stalks. ive stock did pretty well last winter, and is especially thrifty this spring. Quite a legacy of weed and insect pests were obtained with the fanm and in addition an unusual combination of seasonal and other difficulties were encountered
on the start. These have been surmounted one on the start. These have been surmounted one
by one, and the farm is being placed on a satisfactory running basis. We know this will be gratifying to our numerous friends. Fuller particulars later.

## A Bank Manager's Will.

The will of the late Sir Edward Clouston president of the Ban managers with prospects of some day attaining responsible positions at the head office. Born in Moose Factory, Sir Edward managed to accumu included $\$ 2,109,748.92$ in stocks and shares, som

Canada Cement or twenty companies, including Tramways Co., Mexican Light and Power and Smelting of Canada, Ltd., Canadian Pacific Western Canada Power Co., Royal Trust Co. Laurentide Co., Canada sugar Refining Co., Wes India Electric Co., Ltd., Prince Rupert Hydroing and Refining, Canadian Cotton, and 500 shares in the bank of which he was president The number of companies in which the late Si Edward was interested not only indicate far a leading banker's influence may, and fre quently does, extend.

Party System Getting Out of Date Pleading for an organized democracy to suppleading the old system of opposing political
parties, Frank Crane, in the June Forum parties, Frank Crane, in the June Forum, say
several things that are good enough to quote.
" "A political party is not' an organization of the people presumably united by common prin ciples. Experience has shown that these principles under actual working flatten out into
platitudes, and that the main cohesive power is platitudes, and that the main cohesive power is
that of public plunder. The change from Taft ment or took place without a jolt to govern the people had no definite conviction that the transfer would result in anything beyond the
fact that in some way the change would do us
good."
"The claim of the party to be a practical due to anization of the poople is deceptive; is due to a lack of organization. If the people as we have."
"The party system proposes to run a popular
government, to bring to pass the will of the people, by organizing complete groups, by class
war and sectarian strife. It is the worn-out principle of competition applied to government.
"What we really have children in school fo
that they may be prepared for life. And $t$ is that they may be prepared for life. And to develop a civic conscience, and that they be schooled to get what they want in an organized way, that they learn . Caesar's Commentaries and
"Look about you ! The people everywhere are swindled, browbeaten, preyed upon by privileged men or companies. They don't know like 'dumb, driven cattle.' They stand with privilege go through their pockets. Will party organizations remedy this? They never have remedied it. They never will remeldy it

To sum up, political parties have had their day and ought to go, as being hollow, empty
shells. In their places put Organized Democracy Secure this by, first, making people see the need and practicableness of it; then by developing
civic conscience by our educational system, and ivic conscience by our educational system, and
drilling the children in self-government."

## Nature's Diary

By A. B. Klugh, M. A
There is at the present time a little denizen of ar woods which draws the attention of every Mowever little we are inclined to observe hime The abundance of this I refer to the mosquito deal in difierent parts of the Dominion. In the coods along the Atlantic coast it is present in Northern Ontario it swarms in such multitudes as to render life almost unendurable.
The adult inosquito passes the winter in some sheltered location, and in the spring the female shaped rafts on the the form of little boatThese eggs hatch in a few days, the exact time depending upon the temperature, the hatching
being quicker in warm weather. being quicker in warm weather.
escapes from the bottom of the the "larva," water. It is a small, rather of the egge into the which iives with its head downwards and hreathes it changes to a "pupa,", a peculiar, "bull-headed" immense head. It usually fit the sides of its The pupa soon changes to wriggles downwards
and dies away, "seeking what it may devour The normal food of the mosquito is the juice plants, and all those people who frequent the ness it would stick to summer wish to good males are quite content with their diet of plan juices, but the ferocious females add a feast lood to their menu whenever possible. The mouth parts are differently formed in the tw or 'puncturing so tough a subbstance as the human skin. It is easy to tell the males fro the females as the former have plume-like anten nae, or 'feelers," while the latter have oniy hair The irrita
"bite" is due to a liquid which is injected into the puncture, the function of which is to keep the albumins in the juices upon which it feed up the fine tube or clacting, and thus blockin juices.
The effect of this fluid upon different peop aries a great deal; in some it only causes lammation and a large swelling. Some people ar even rendered seriously ill if they receive many bites. Residents of regions where mosquitoe abound, get more or less inoculated by the con hem ve The mosquitoes in the interior and on the coast belong to a different species; a commo It is on theculiar acing the salt-marsh mosquito tically immune from the effects of the one specie nay be serionsly affected by the bite of the other Those of us who love the woods at all seasons have to find a way to prevent our lives boing made mosquito, and the most. effective haunts, by the have found to be the application of a "dope hade up as follows :

$$
\begin{aligned}
& \text { Oil of Pennyroyal.. ..................................... } 1 \text { part } \\
& \text { Castor opil................. }
\end{aligned}
$$

This "dope" is not the cleanest preparation washes off readily with soap and hot wand There are many other preparations which I her tried, and a very pleasant one to use, and quite numerous or the mosquitoes are not ver Thore are many things which may be used allay the irritation of the bites, probably the best being liquid ammonia. Some find that the juice of an onion rubled over the bites bring elief, and baking soda is often useful. From what we have seen of the life-history of except where there is stagnant water. This gives us a hint as to how to reduce the number ing water possible is, to get rid of all the stand The rain-water barrel is a raining of ponds, etc for mosquitoes, and should be kept covered with wire netting
In parts of New Jersey the mosquitoes were at one time so bad as to render these, regions prac-
tically uninhabitable; but now these same places are suminer resorts. This result has been obtained by draining of pools and by pouring crude petroleum on the marshes which could not film drained. The crude oil spreads out in a thin pupae of the water and prevents the larvae and
mosquito from breathing

## HORSES.

## Don't forget the oats for the sucking colt.

Keep the mare's milk flow up by liberal feed-

A day's work for the gelding is often a day and a half for the mare suckling a foal
should not be over-heated or fatigued.

There are those who believe that a six or
seven-hour work day is enough for the mare with Seven-hour work day is enough for the mare with
a colt, and that more than thlis will prove a oss in that it will injure both mare and foal.

Many farms could well afford to sell the highoriced geldngs and fill their, places with big, ork and raise colts as well.

In a decade of draft-horse-breeding success a whtern horseman writes: '"I have found though is not the only and big feature. Getting the ighot the only and big feature. Getting the
ight sire and sticking to one breed and even
one type, I now cactor in horse lite essential

The best way to gain knowledge of the hors or any other business is from practical ex perience. If your neighbor has exceptionally
good success with horses, visit him frequently encourage him to talk "horse", and thus draw him out until you have learned his methods Select from them the best, improve upon them It pays to take a pride in a good team. W recently read of a man who was asking a certain price for a span of good drafters. His
neighbors thought it too much and made light of such a price, but through keeping the horse in extra fine fit, weighing and measuring them
trom time to time, and letting dray firms in the neighboring cities know. what the horses wer doing, he succeeded in getting his own price in very shor to. It paid.

Navel-ill takes some colts, even though grea care has been taken to keep antiseptic on th foaled and stables are kept very clean, but the man who knows that an antiseptic such as car-
bolic acid in ten per cent solution is generally bofic acid in preventing the disease if promptly and regularly applied until the cord dries up, has himself to blame if he neglects to prepare a little of the solution and the colt falls a victim
to the most dreaded foal ailment.

> Percentage of Foals. Grooms and stallioners are sometimes wont mares which are served by their stallions. It is remarkable how much stock is placed in this Of course it may have some little value, because if a large number of goorse to be the sire of thei season's foals, he must have some good points
ant the fact that he breeds 200 about him. But the fact that he breeds 20 or of his value. K'How many colts does he leave each year, and what kind of colts ar they ?' This is the true measure of his breed
ing value. What is a good percentage of foals ing value. What is a good percentage of which from mares bred? This is a question in which authentic figures to show what a horse has done we would be pleased to get them.
> In this issue is illustrated a three-year-ol
Clydesdale which, last year in his two-year-ol Clydesdale which, last year in his two-year-o with foal or 93.3 per cent. This is a goo record even on so small a number, but it is away above the average, and it can hards be
expected that the horse will keep up this high expected that the horse will keep up this high percentage when bred to a large numbs looks like a
150 mares annually. His success lo point in favor of limiting the number of daily services. There is little doubt but that many
horses are injured by over-crowding in this ro spect. An example of what an older horse in the
heaviest seasons has done may be noted. The late McQueen, a one-time very famous Clydesdal stalion 99 to 1906 inclusive (eight seasons) be ginning at fourteen years of age and ending a twenty-one years, over 1,700 mares, and foal 1,079 of them or a percentage foaled for the
eight seasons of 62.8 . Now this horse was well eight seasons of managed, but very heavily worked during the oreeding season. Possibly he would have got a little higher percentage of his mares in foal had he not had quite so many, but, of course, of that, sure as this great old horse was, over 37 pe cent of the mares bred to him in the eight year failed to conceive, possibly through no fault o
the horse. We understand that between thirty the horse. We understand that between thirty and forty per cent of the do not conceive, no doubt partly due to the horses and partly due to the mares themselves. It would seem that if a stallion gets from 60 per cent reckoned fair
of his mares with foal, he may be rent. of his mares with foal, he may be reckoner cent
ty sure, Many get less than fifty per II sueen's record proved one other point. It is
often heard said that an old horse is not generoften heard said that an old horse active animal ally as sure as a younger, more horse's usefulness has been injured by improper care, but with the hest of care and an al,undance of exercise Mcluueen was as sure at twenty-one yver was
are, and even older than that, as he evold no There is no reason why an old horse should not rove a sure foal getter if he has been handled he should have been. This question of of ntage of foals is interesting, and mare owner should endeavor by the judicious care animals to keep the requirements of reproduction.

## Watch the Mare

$\qquad$ are still many mares which have not foaled. tance of being of experience realize the importance if necessary when the critio render assisbut every year we hear of several been lost through their inability to cots having foetal membranes and ret the supply of air the essential to life. As soon as the foetus is pelled and the umbilical cord is severed, the colt's supply of oxygen, which has hitherto been obtained from the circulation of the dam's blood through its vascular system, is cut off, and it is absolutely necessary, if life is to be retained in the body of the newly-born foal, that the oxygenation of the blood be commenced immediately through the natural sources, the openings leading directly to the lungs. In short, the colt must be able to breathe pure air or life is exinct in a very few minutes. If an attendant is at hand when foaling commences he can see to that all danger of loss from this cause is prompls
$\qquad$ Again, the colt may have been foaled' all right the enveloping membranes may have broken easily, and vitality to gain its feet and obtain litength of the colostrum of the feet and obtain a little maintain and increase its vigor. Colts have very often been lost from this cause, when, an attendant had been on hand, the young life might easily have been saved.


Lord Gray (Imp.)
This ine three-year-old colt, by Iron Duke, is the
The Importance of the Walk. Win the great majority of horses the gail most valuabie and of greatest use is the walk. In fact this is true of all horres. It the hormo walks right he is far more hkely to trot or canter wen, than if ho is defective at the wall The walk is the most neglocted gait in the train
ing or "ureaking") called, of our horses. ${ }^{\text {an }}$ The is more commonit allowed to ate ato tor walking speed, and then is ""whipped w"" to trot, iand kept at it for nearly the entire time that he is hitched. The greater part of the worl done, especililly by a heavy dratter, is accomplished at a walking gait, and this applies oven more particularly to the farm work horsed which very seldom, atter they have gone through
henen
 go patar than a walk. . It is very oesential the
they turn out to be good fast walkera they urn out ho be good fast walkers, and that
they go straight and true, for they must often move heary loants.
A Good deal of this good virtue may be in-
stilled into the animal during his early tram infued into the animal during his early traim
Inver should the colt be allowed to slouch From the time the harness is bucckited on and the lines are drawn over his back and ho his commanded to start, he should bo mado walk as tas
ns he can. It is not wise to ask $h i m$ to trot


 avalabie, and where such ho the case
good training for the green youngster to place
 ot him may be the more clearly whom himp Ab a rule more care is taken in "treakinn" the
light horese, roadsters, coochers, or eadders,

There are scores of little things which may happen. The mare may have a case of difficult parturition or a mal-presentation may occur, and in either case an obstetrist is required. It is not always necessary that he be a professional, but he should have suffficient knowledge
of what is required to do the work in hand to the best interests of mare and foal.
It may seem rather late lin the season to make this hint, but it has been repeated year after year early and late, and just the other day
correepondent wrote to this paper saying his a correepondent wrote to this paper saying his
mare had foaled when no one was with her, and mare harently mature and normal colt when found was dead. Who knows but what the coll might have been saved had prompt attention been
fiven? The loss of a foal is a serious matter in the year's business. Enough will die after getting the best of care. There is little excuse or neglect. Unless it is intended to take good care of the mare and to give the best ate great. The difference between care and carelessness is not so great that the average mare owner cannot, in all cases, put himself in the careful class. ittle sleep lost and the few hours of leisure fime taken up in "watching" the mare is time almost always profitably spent.
than is eivere the early training
of the big, often of the big, often
ol $\mathrm{umsy-looking}$
draft colt.


 grualling habor to
do in has ond
hat do ine his ahort
caroer and that
mportant thet



 tion of hitamor.





 plowing, but ove
at this work
fairly smart ga to the very slow one which implement to run "doad." Teach him to walls right up, on the bit, and in this way many

## LIVE STOCK

Bleeding for Cattle Disease.
Editor "The Farmer's Advocate.": Young, a Middlesex county farmer, had three-heed of cattle die very suddenly from a disease of
which I have seen several cases, as many which I have seon several cases, as many as five in one month. We tried several things, and the
only treatment that proved effective was as as the animals show the disease to whut them up in a dry box stall and bleed them from the neek, We have never lost one after bleeding We have never lost one after bleeding.
Huron Co., Ont. A very good case for lamb fattening can be
made out from a comparison of the price of feeder lambs last fall and the of the prished of this spring. There is an opportunity in this branch of farming which should not be alto-
gether overlooked.

Steers Proved Profitable. H. A. Craig, writing in "'The Farmer's Advocate and Home Journal," Winnipeg, Man., out-
lining the results of steer-feeding experiments in Alberta, is able to show $a$ fair profit on the operations, even though prices were high last fall
and not as high as expected this spring. Mr. and not as
Craig says :
During the season of 1912-13 there were 397 During the season of 1912-13 there were 397
steers fed on four of the Demonstration Farms of the Province of Alberta at Vermilion, Olds, Claresholm and Sedgewick. All these cattle were range-hred steers from two to four years
old. They were put into an enclosure about old. They were put into an enclosure about
November 1st, and fed on an average five and a half months. The enclosure in each case covered an area of about one and a hali acres and was protected on three sides by a tight board fence;
eight feet high, besides this the horse and cattle barns afforded some shelter. The yards are fitted up with racks and tables, to feed both long and cut feed. The long feed was fed in racks
attached to the board fence forming a $V$ with attached to the board fence forming a
the fence and made of 2 by 4 -inch material placed about 'five and a half inches apart, similar to the feeding racks in railway stock, yards. The cut feed and chop was fed in tables
placed in the middle of the vard. These tables pare about four feet wide with a two by eightinch on each side, and a two by four--inch scantling on top of the two by eight-inch stuff form-
tige a lip. Thls prevents the cattle wasting the
On all the farms the cattle were fed cut green oat sheaves and chop twice a day, and at Sedgewick and Vermilion, hay was fed for a portion of
the time ; at Olds the racks were kept filled with hay during the whole feeding period, and at Claresholm no hay was fed. Feeding chop was commenced by giving abouit four pounds per head
at the begiming of the year. Thlis was increased as fast as the animals would stand it , until they were on full ration of about 14 pounds per head. The chop consisted of two-thirds oats and one chird barley, though some wheat was supplied in
place of the barley. This chop was coarsely
or place of the bariey. This chop was coarsely
ground and mixed with the cut feed. Plenty of salt and heated water were kept before them all the time.
The conditions under which the cattle were
weighed in and weighed out at the different weighed in and weighed out at the different
farms vary very greatly. The Claresholm and Olds cattle were bought at Grassy Lake and weighed full off the range before shipping. Both
of these bunches of cattle were weighed at the C. P. R. stock yards at Claresholm and Olds respectively, when sold. The Vermilion cattle were weighed in on the Vermilion stock yards full off
the range, and in selling were weighed off cars Switt Canadian Co.'s Packing Plant, Edmonton. The Sedgewick cattle were bought at Camrose, and weighed full on the C. P. R. stock-yards
scales beore shipping.
They were sold weighed scales berore shipping. They were sold wighed The Vermilion cattle were twenty hours on the cars, about twentyzatwo hours out of the feeding yard, before being weighed, They were weighed
at the farm two weeks before shipping and at the farm ${ }^{\text {two }}$ weeks before shipping and
averaged 1,473 pounds.
At the packing plant they averaged 1,375 . Allowing for 15 pounds gain in two weeks the shrink would be 115
pounds.
Before comparing the net gain 1 n
 tions under which the various cattle were weighed in and weighed out must be taken into consideration, so that a fair comparison can be
made. On the whole the steer-feeding work this year
has proven very satisfactry. The price was
high when the strecr were high when the steers were brought in, and the
prices in the spring were not quite as prices in the spring were not quite as high as
anticipatede owing to the fact, that at ot of
Eastern leaf was shipped on to the Western Eastern beef was shipped on to the Western
market. Iowever, even with the small margin between the cost price and selling price, the
vross profit of the feeding of 397 steers, was gross profit of the feeding of 397 steers was
$\$ 13,091.10$. Market price is charged for feed when grown on the farms. The greater pari
of the feed was grown on the various farms. and it would perhaps lee faire to credit the sterer, with this, as the manure is all being applied to Our experience this vear has taught us, first, will fo it more economicaly it tought close to to
the feeding place and driven in rather than buving aab a distance and shipping , train, The
journey seems to excite the animals and prevents fourney seems to e.cte che wins in the pall part of the feeding period.
Second. We are convinced it pays 10 cut al
the green sheaves, and if hay can he securued at moderate cost it will pay to keep the racks full
of hay during the whole of the feeding period. Third. It is important in feeding at bunch of 100 steess that the steers which are not "oing
well after one month's feeding be cut oun and sold to the butcher at market prices. lunch fed during the last two years ${ }^{\text {at }}$
lit
liemonstration Farms we have found that
are from two to five steers which do not pay to feed until spring. In one case this year alsteer April 21 st weighed out at 800 pounds. 104 Ateers weighed of the results shows that mis., and gained in weight $12,990 \mathrm{mbs}$., including two which died and two which are kept over. The increase in weight was 128 Ibs. per steer.
These steers were bought at 5 cents per pound These steers were bought at $5 \frac{1}{\text { s }}$ cents per pound
or $\$ 6,796.651$; this with $\$ 307.3$ interest on the note, and $\$ 1,493.00$ for feed including everything and $\$ 407.45$ for labor, brought the total cost up to $\$ 9,005.61$. The steers brought $7 \frac{1}{1}$
cents when sold, and together with the increase in hogs following brought $\$ 10,826.19$, or a net gain of $\$ 1,820.58$; a net gain per head of $\$ 17.50$, and a gross gain of $\$ 38.74$ per head.
At the Sedgewick farm 106 steers gained 21 109 lbs. These steers cost, including freight, interest, feed and labor $\$ 9,565.81$, and sold for $\$ 4.60$ per head, and a gross profit of $\$ 29.36$ per weight Olds 105 steers gained. 163 lbs, each in and realized at 7 everything lincluded, $\$ 10,890.63$, leaving a net gain of $\$ 966.12$ or $\$ 9.20$ per head, and Cross profit 82 ste.83 per head. 710 the At Claresholm 82 steers gained 14,710 1bs.
cost $\$ 8,332.16$, and realized $\$ 9,244.97$. A total net gain, all expenses being charged, of $\$ 912.81$
or $\$ 11.13$ per head, or a gross profit of $\$ 37.20$ or $\$ 11.13$ per head, or a gross profit of $\$ 37.20$
per head. cattle in Ontario were put in at from $\$ 5.50$ to over $\$ 6.00$ per cwt., and sold out, in most cases, at a little less than $\$ 7.00$, although a few
extra choice cattle made as high as $\$ 7.32$ or extra choice cattle made as high as $\$ 7.32$ or
$\$ 7.35$. If profit is to be made a reasonable \$7.35. If profit is to be made a reasonable
margin of spread is necessary, but these experi-


Typical Steer
ments in the West, with all expenses, freight, interest, labor and feed oi all kinds charged
against the steers, showed a vers nice silles the manure. the manure. This would tincreate was placed on Considerably chood wages were charged against
the cattle in cvery case, and the profits shom
 in at $\$ 5.25, \$ 5.75, \$ 5.70$ and $\$ 5.50$ per cwt, re
spectivels, and all were sold at $\$ 7.50$ per cwt. The smallest spread in mice, was \$1.75 per cwt.
 Toy so much spread in brice m"nting on the resmin sars a carried on at fome whemen demonstration
 tory nat $\$ 4.50$ to $\$ 17.50$. makus vers satisfac- wa some extent the evils have been mitigated
 the steers in hard cash. Wh........ Whas. sthers

Peeding stations, with the exception of the bunc making the largest net profits, fair prices were paid and they brought no more than is being
paid for well-finished steers on any of the Westpaid for well
"It is well also to look at the gross profits for labor, pasture and feed could be cut in hals especially where not more than a carload is fed during the winter on any one farm, and it would
be safe to say that the net profit for the farm be safe to say that the net profit for the farmer
would, in every case, be very much nearer the gross profit than was the case in the experiments, not because he would be more ecomonical
but the items, labor and but the items, labor and feed would cost him
much less than they are figured at in the reports much less than they are fig
of the feeding experiments.

## A Sample Steer

The accompanying illustration is a suapshot of a representative sample 1720-1b fat steer in a
carload of 20 heau, averaging over 1500. .bs. each after more than 100 -mile railway trip, sold recently at the Union Stock Yards, West Toronto Junction, for J. F. Beattie, their feeder, of
Middlesex. Co., Ontario, by Maybee and Wilson to the Harris Abattuir people at $\$ 7,32 \frac{1}{2}$ per cwt. By frequenters of this growing cattle mart the bunch was reckoned the choicest that had made its appearance there this season. They were ripe

## Over-Fitting and Breeding

Breeders who have had experience in fitting shows stock year after year for the larger bloom on the animals, and still not injure best breeding ability. The very high feeding, of oten overfeeding, neces-
sary to put on sary to put on
the extra finishing touches,, is
not usually in the best interests of their procreative powers. Not.s o
very long ago the writer visited a fine show herd, and the owner of out a very $f$ in in e show cow saying, down in flesh, as produced no calves." tion a writer in
"The Farmer Stock Breeder', throws out some
valuable $h$ in $n$ t. valuable hintis.
He says tha.t. He say

- probabl will be inclined co dispute the contention $t^{\prime}$ a
very high feeding being an entirely unnatural system, is prejudicial to instinct and that many herds, ably managed, have supplied examples natural, obese condition tends also to proNuce patchy flesh, which, in the course of time, careful with the system of mane breeder is very and in the selection and mating of his stock. Then or not it have the equally wide problem whether whether, in fact the to show young stockparent are not outweirhed by ages which are ap . done during the infantile period. It is probtoock exhibet in say that one-half of the young their youth in high condition are spoiled in upon the subject that they refuse to exhibit , lace from time discussions which have taken act that breeders to time clearly bring out the stem which has, in a financial less slaves to the questionable whether a matter of policy it To some extent the evils have been mitigated in the showvard than was at one time common
very difficult to bring out young stock in the either overstralining the constitution or ruinling either overstraining che const legs of horses, the even fleshing o cattle and the form of sheep. In the case of
sheep the problem may be pushed on one side because the production of fat lamb is so essenti ally a part of the breeder's policy that quick
maturity and rapid feeding are considered essen maturity antle, however, are not all built for one purpose any more than sheep are. They have,
however, a longer life, and the defects which however, a longer life, and the defects which
mature in youth are liable to become perceptibly more visible as the years go on.
The long-wool type of sheep, which is not brud for early maturic, may surer somewha hill breeds the system of quick maturity, which has been so largely recognized by the showyar is not' entirely condoned by the sheep breeder for the simple reason that quick turnover is not
compatible with the conditions under which the great majority of these flocks are raised. There is a shrewd suspicion that high feeding and the
it attempt to introduce early maturity into flocks
which are not suited for the purpose and into which are not suited for well adapted to it, has been an unalloyed blessing.
The beef type of cattle has, however, gradual-
ly gained by quick feeding in youth, and to the ly gained by quick feeding in youth, and to the
showing of young stock may be attributed, to a large extent, the inherited quality of rapid maturity, which is partly a breeder's and partly a feeder's triumph. Where the animal is brought
to the block as early as possible, the showing to the block as early as possible, the showing of young stock is an ardvantage rather than fruitfulness of the herd the breeder will realize that it is not a good system, which is producthe other hand re not shown with much condi tion, and so long as this excellent principle maintained there can be no reasonable objection to the showing of calves and yearlings. system is the horse breeder Young colts and system is the horse breeder. Young colts and forced raising. Breeders who show invariably have had experience in this respect, but for the young stock. The rapid ripening process is dangerous, and many a good foal showing great promise has been spoiled by too rapid ripening and feeding upon rations which were productive cluding the article states
"It is to be feared that beyond the moral force exerted by refusal to exhibit, there is no remedy, for the fittest animal will necessarily
win in the public competition. At all events it is the judge's duty to examine and judge stock on the form presented to him, and not upon -their promise of the future. So long as this is
so the fitting of stock for the showyard will so the fitting of stock for the showyard wain
necessarily call for preparation to obtain necessarily call for preparation our obther those who are not willing to look to the future may
find their policy costly. It is regrettable that find their policy' costly. It is regrettable that
so many promising animals disappear after an so many promising animals disappear it is un-
early experience of the showyard, and it fortunate that so many exhibits which stand well in early years should go far back when they
come to maturity. But we must not blame come to maturity. But we must not bline of
early showing entirely for that, as each line early showing entirely ior that, as each
blood is endowed with its own peculiarities. It is within the experience of most breeders that
the progeny of certain horses are known to do the progeny of certain horses are known a a do a
best in their youth, and to fall away as they mature ; others, again, are improve as the years roll on, while yet a third class are good
all the way through. Too many defects must all the way through. Too many defects must
not be attributed to early showling, but that it not be attributed to early showing, ers will agree, unless the objects which the breeder has in view are those of rapid ripening and

All Hog Diseases Not Cholera. Molera, points out that all the ailments of the hog are not due to this dread disease, and that hors suffer from other diseases, the sympioms of Which should not be confused wity cent. of the
cholera. He believes that ninety per cue to cholera Toscos from disease among hogs are due to cholera
his other diseases are often mistaken for it, h:s other diseases are often mistaken for it.
This sometimes leads owners to blame serum This sometimes leads owners to blame serum Carbage poisoning is one trouble sometimes istaken for cholera. It results irom feeding otel and restaurant-table refuse containing large Tarmmation and it or other irritating substances
duce symptoms much like those of cholera. multiplying in the lungs, causing irritatio pring the
ifh and pueumonia. The animal becomes un
then works on a much greater weight than with price is 5 animal. Suppose the buying-in is 6.5 cents, the spread is 1.5 cents per pound If the animal weighed 1,200 pounds when put in this spread would be $\$ 18.00$, whereas if he only
weighed 600 pounds at the commencement of the feeding period, the spread would only amount to $\$ 9.00$ A difference of nine dollars on each cattle to fatten. Again the heavy, older type of feeder usually fattens more easily than the younger, growing animal-a higher degree of finish is generaly obtavo in shorter time the man who makes a practice of buying cattle to feed. For the stock raiser who feeds his own cattle, the young animal is the more profitable
if rightly handled. More economical gains are made with the very young animal, but the mis take of selling the cattle before they are thoroughly finished must be avoided. Young, small cattle poorly fitted are still slow sale, but
these cattle ripe for the block are in demand. The heavy steer, while not enjoying such a price lead as he once did over that paid for
lighter stock, will always sell well when in prime lighter stock, will always sell well when in prime
condition. Two things we learn from the market, 1st, the home market has grown to such an extent that the demand for choice butchers' cattle has overtaken that for heavy exporters, and, 2nd, no matter what class is finished, they
should be made extra prime to command ready sale at the highest price.

With the price of pork as high as it is this season, one wonders just why so many young the larger markets of the country. If there is any season when pork can be protuced economipigs can have the run of a paddock and be fed a large proportion of green feed, as clover, alfalfa, etc. At the price of coarse grains this spring, it appears as though it would pay to
keen and feed the young pigs, even though grain keen ard feed the young pigs, even though grain
had to be bought to do it, Very often the youngsters are sold because the supply of grain in the bins has run low or too much has been sold off earlier in the year, We would thi
twice hefore we sold young pigs this spring.

## THE FARM.

Get After the Weeds Early
There is an old saying which everyone has heard, and which is true in a large measure as catches the worm." There are those who twist this old adage upside down, and to suit their purposes when they have arisen late in the morning, or are behind in doing some particular work, and make it read "The early worm gets caught." When the problem is weed destructying the second should be the early bird, and applying the second
interpretation of the adage the weed should be the worm. In other words, make war on all weeds as early in the season as possible. From the very lined by warmth and moisture, commences to draw upon the food material stored around it a a part of what we call the seed, until the plant emerges, grows, and ripens, its whole aim is reproduction of its kind by seeds, or root-stocks
or both. It waits for nothing, and always


In Pastures Green.
-Doddies" and their offspring on an Ontario farm.
makes the best of its opportunities. Under most for the Record of Performance are visiting our
circumstances the weed plant, or weed seed is in herd from month to month to supervise the the land ready when the spring opens up, and always has the advantage of early seeding. Life is revived from the dormant winter state in many
instances very early, and the weeds get a good instances very early, and the weeds get a good
start. tiller of the two kinds of weeds with field and weeds of the roadside and fence rows. If the land is badly infested a hoe crop, or a summer
fallow, is generally advised for the former class, and how important it is to begin the cleaning
operations early in the season. Where roots or corn are placed in a dirty field as much work as possible should have been done before planting or sowing, and then when the crop is small, and also
while the weeds are young and tender the weeder harrow and cultivator can do a world of good and save a great amount of hand hoeing by killing the weeds before they have gained sufficient root hold and strength to survive such treatment. Di
you ever try to thin mangels or turnips after the weeds had gained a height of six inches or more and the turnips had become spindly as a con sequence ? If so, you will realize the difference between getting after the weeds while they are
mall and allowing them to get such a start The difference in time is' not all. A cleaner jo is almost invariably done while weeds, are small. The larger plants are very often sufficiently advanced that the seed while still quite green has
enough vitality to mature, and thus the land is nough vitality to mature, and thus the land
eseeded. Yellow foxtail is a good example of - The of this kind.

- The summer fallow should be worked up as it allowed to make a large growth before the plow is put on, like the foxtail in the hoed crop mature when plowed down, and all the land is seeded for the following year.
It is a good plan where the
It is a good plan where the summer fallow is
very dirty to get it plowed early, and work it very dirty to get it plowsd early, and work it well cultivated once every week or so until sometime early in suly, when buckwheat may be sow airly thick or the land drilled up and sown to rape. These are good smothering crops and keep cultivation down well and smother them out in many cases completely. This system is to be recommended because it is a great saving of labor
during the busy harvest season when, if the land is left bare there is some danger of cultivation being delayed, or neglected during the rush of Roadside and fence-corner weeds present farm clean with all. kinds of noxious pests growing and seeding along its borders? Many seem to think that it is not their duty to cut weeds on are paid in money for it or not is a miunicipal matter, but it surely is profitable from the viewpoint of clean farming, and no one should allow because of negligence road in front of his place because of negligence on the part of the municipal
authorities. Plun to cut these roadside weeds in good time before they mature any seed.
Undoultedly the best way to clean weeds from ence-rows is to have less fences, but some are absolutely necessary where mixed farming is carried on, and to keep these bottoms free from
aoxious pests no better practice can be recommended than to each year take a 'good sharp scythe and cut everything growing theoreon. Mow all the herbage and make cow hay of it, unless it cleaned up very well by this methon, and it adds much to the appearence of the farm. Get after the weeds and keep at it. They are persistent; their
fighters must also be persistent.

Experiments at the Rhode Island Experimen Station indicated that marked increases in th phosphorus percentage of turnips were caus
applications of acid phosphate to the soil.

## THE DAIRY

## Fluctuations in Cow Testing.

Not a few dairymen who start in to test factory test or two on the start. Finding some age of butter-fat, they lose interest and en age of butter-fat, they lose interest and enparticular season, just after going out on grass,
give milk much lower in butter-fat than the give milk much lower in butter-fat than the will month to month, owing to a variety of
causes that are difficult to trace. It is never wise causes that are difficult to trace. It is never wise
to jump at conclusions. Just a leaf from our
herd from month to month to supervise the that test, and we have availed ourselves of their services to test the grade cows as well.
course we weigh the milk of all the course we weigh the milk of ath the cows. The on May 31st. Some of the differences were striking. One cow, which tested $4.2 \%$ on the first occasion, dropped to $2.9 \%$; another, from
3.7 to 3.0 another, from 4.3 to 3.7 ; others held their own, while one increased a tenth.
The average decreased from 3.7 to $3.3 \%$. In this case the cows were on grass at the time o
hoth tests. The city-supply house which h hoth tests. The city-supply house which has
heen getting our milk, has previously made frequen getting our milk, has previously made fre3.8 to 4 per cent, and a shade higher. We may have one or two more grade Holsteins in the
herd at present than formerly. But the main point is the fluctuation in test of the different cows. No doubt at the next test some of the goes. We have no thought of discontinuing the testing because some of the cows showed a de
crease. That would be sheer folly. If there are habitually low-testing cows in the hend we want to know it. It is to be feared that the main motive some dairymen have in testing is a de much more profitable to learn the truth! Often in this work the truth turns out to be much less
distasteful than it seems on the start

## HORTICULTURE.

## Cultivation of Blackberries

fruit which is not appreciated as it might An American bulletin on small fruit culture has this to say of this fruit
The blackberry is undoubtedly the most pro fitable of the brambles. They are easily care quire covering in the winter. The method pruning the canes is like that of the black raspmethod of propagation is like that of the red raspberry and the suckers should be cut out the same as suggested with the red raspberry.
The requirements for a good location of a
blackberry plantation are similar to those of the raspberry, except that more care must be the not to select a place where the soil is too rich fall than nitrogen blackberry grows later in the soil will not stop soon enough to thor rich harden the canes for winter, and winter killing

Although the blackberry is quite free fro disease, the same spraying recommended for the is frequently found in blackial. Plants affected should be cut out and burned soon as found
For the varieties that require covering during furrow towards the plants in fall to keep them the canes over at right angles to the bend cover with two or three inches of soil. With side, to relieve the roots a little on the opposit the frost ieve the strain spring, as soon a the frost is out of the ground, the canes should

## Stumbling on Cowper.

The May frost was a real disaster in this aistrict, though it took us fully a month to find out about it. Yesterday an orchardist told me barrels map a diference of fully five hundred showing of dropped off. The sit most of them have about half. The Spies and Baldwins will yield into bloom, but the Russets and all in coming varieties Iwere completely killed. Even the
notorious Ben Davises have been destroy examination of our orchard shows that only a escaped, and the Spies are not and Spies have ly so well as at first hoped. The late blossoms do not appear to have been fertilized, even
though they have escaped the frost. I wonder if that was becausc the hlossoms on all the seems to be against been killed. Everything Though we sprayed and put up a pretty year. against the usual, and some unusual, bugs, pests All of which puts ine in the mood to quote
${ }^{r}$ Ye little know the cares,
The vigilance, the labor, and the skill That day and night are exercised, and hang That ye may garnish your profuse regales.
Ten thousand dangers lie in wait to thwart The process. Heat, and cold, and wind an Moisture, and drought, mice, worms and swarm ing flies
Dire disappointment, that admits of work And which no care can obviate. It were long,
Too long, to tell the expedients and the Which long, to tell the expedients and the shifts Devises while he guards his tender trust
And oft at last in vain.
You will notice that although the poet's category of evils is fairly full, he evidently knew more devastating than anything else.

As very few people read Cowper nowadays, am going to tell how I happened to find that ing out manure to the corn ground and the young orchard, and while toiling at that anduous job it occurred to me that it was also somewhat
prosaic. Burns and other Scotch poets occasional references to "The molidden,"" but I could remember nothing cheering. At last I re-
membered one word-'stercoracoous", and after a little reflection managed to locate it in Cowper's Task. At the noon hour I hunted it
"The stable yields a stercoraceous heap. That certainly described in chosen words the pile at which we were working, and a little further on in ..
pestilent and most corrosive steam,
ike a gross fog
Boeotian, rising fast From this it would appear that there is no
kind of farm work to which the poets have not given their attention at some time

Instead of putting down the volume after ing, and was not only delighted but amazead find my own point of view expressed more beauticause I found my own hope to express it. Bework I was doing I am ous piece for the edification of to quote a gene And silent With few associated, in remote And silent woods I wander, far from those With few associates, in the peopled scene Here much I ruminate, as much I may, With other views of men and manners now

- 1

Each in his all are wanderers, gone astray In chase of fancied happiness, still woo'd And never won. Dream after dream ensues, And still are disappeinted. Rings the wrerld With the vain stir. I sum up half mankind And add two-thirds of the remaining half, Dreams, empty dreams. The millind fears As if created only like the gay That spreads his motley wings in the eye of
To sport their season, and be seen no more. The sport their season, and be seen no more. Some write a narrative of wars, and feats. A heroes little known : and call the rant His own co-evals took but little wote And paint his person, character and views, As they had known him from his mother's womb In which obscurity has the puzzled skein, The threads of politic and shrewd design That ran through all his purposes, and charge His mind with meanings that he never had, The solid, kept concealed. Some drill and bore Extract earth, and from the strata ther That He who made it and revealed its date To Moses was mistaken in its age.
Some, fhore acute and more industrious still, Contrive creation. and more industrious still, To the sharp peak of her sublimest height,
And tell us whence the stars ; why some are And planetary some; what gave them first Great contest follows and ain fowed their light rat contest follows, and much learned dust And truth disclaiming both. And thus they The little wick of life's poor shallow lamp

To distant worlds and trifling in their own.
TI't not a pity now, that tickling rheums I't not a pity now, that tick ling rheums
Should never tease the lungs and blear the sight O oraches like these? Great pity too,
That, having wielded the elements, and built That, having wiolded the elements, and built A thousand systems, each in his own way, They should go out in fume and be forgot
Defend me therefore, common sense, say I , Defend me mererere, remeries so airy, from the toil
From or dropinis buckets into empty wells,
And growing old in drawing nothing up And growing old in drawing nothing up ${ }^{\text {T }}$, were well, says one sage, erudite, profound, Terribly arched and aquiline his nos T were well could you permit the world to live
As the world pleases: what's the world to youv" As the world pleases : what's the world to you?"
Where could you get a better description of Where could you get a better description of
the activities of life as we see them to-day?
 them at me because of all I have had to say about the Rank Act and Big Business. As As soon
as .time will permit $\quad$ I pleasure in reading Cowper's poeens again. It
is quite clear to me that I missed a great deal peeasure in reaing cowper's poems again. It
is quite clear to me that It missed a great deal
when reading them as a boy.

## Tent Caterpillars Destructive

In this part of the country, and $\mathbf{I}$ have no doubt it is the same all over the province more
or less, one notes with dismay the ravages of the tent caterpillar. Nearly every wild cherry, apple tree, etc., along the roadside has one, and By now, if the trees are small, all the leatpears. By now, if the trees are small, all the leaves are
eaten off them, and the worms are crawling over he ground, fences, and even around the farm uildings, in search of more food.
In this region (Oxford Clounty) spraying the
orchards is the rule rather than the exception, orchards is the rule rather than the exception,
and surely when the farmer will take the precaution to ward of worms and insects in his
orchard, the should be willing to go a step orchard, the should be willing to go a step arther and take measures to destroy these de-
tructive caterpillars. As this is a very serious pest, and one that does great damage in a very
short time, it seems to me something should be The wild trees are of benefit chiefly because erhaps o make the country attractive. This, how from a point of beauty and of usefulness, and leafless trees covered with crawling caterpillars are very objectionable. Why would it not be a gree that harbors these caterpillars along his And another excellent breeding place for de structive insects and worms is the weeds along the fence, rows, and the road rols. It these whole country would be very greatly benented. It would not mean very much extra work one could only make the farmer think so.
If these things were done, and the ground If these things were done, and the grounds around farm buildings kept neat, and a few cow-
ers, shrubs and vines planted, our province, al-
ready noted, would be one to feel even 'more ready noted, woul

## POULTRY

## Good Rations for the Poultry.

There are three classes of poultry with which
ry farmer is or should be concerned. rery farmer is or should be concerned. These stock, and laying stock. Each of the three re-
quires a different ration from that supplied the quires a different ration from that supplied the
others, and yet there is considerable sameness in others, and yet there is considerable sameness in
the rations recommended by our best authorities The very fact that the rations are much alike in
many particulars and still different, and the many particulars and still different, and the
little difierences are so very important in the
dondines ary that the feeder exercise care, for it is ap parent that very little change makes a great
difference in results. difference in results.
Rations to suit each of these classes ar recommended by pouttry experts in charge of this
work in connection with a demonstration train now travelling in Ontario. Here is what they
advise for growing chicks: buttermilk, chick advise for growing chicks: buttermilk, chick
feed, grit, hulled oats, wheat and alfalfa. It looks like a balanced ration, and if the chicks great mixture they should gain well. It is a great mixture, and proves again that a variety
in the diet is preferred. It is wonderful how buttermilk or sour milk has come to the front in poultry feeding during recent years. It is now recommended for birds of all ages, and
forms a large portion of the drink, or liquid in forms a large portion of the drink, or liquid in
preparing wet mashes on many poultry farms preparing wet mashes on many poultry farms.
"hick feed is valuable for the young birds, grit
is needed by all classes, and hulled oats and
wheat are surely good feed. Alfalfa is a good green feed, and is high lin protein content.
Young clover or tender grass should be just as Young clover or tender grass should be just as
satisfactory during the season when it is plenti-

As the young chickens grow the feed may be changed a little, and when fattening time comes they will be found to do very well on buttermilk, ground oats, ground buckwheat, low-grade flour thick porridge, and feed in troughs. This is a good, ration for crate fattening, a branch of the poultry business which has not been de
veloped to the extent which the profits possible warrant. If you have any large cockerels thits fall or during the late summer, try the crates and this ration.

| Then there is the laying stock. There is great |
| :--- | ing days for the hen every year and the average egg production hovering around 90 per hen there is a chance in a large percentage of the flocks for more systematic effort in breeding,

feeding and weeding out old stock. Here is the ration : buttermilk, corn, rolled oats, grit, oyster shell, alfalia and beef scrap. Get a lay-
ing strain of poultry, feed this feed, house the birds in the most sanitary house, and bring the production up to 150 or 200 eggs per hen per milk an of these three rations contains buyin hens and growing chicks each contain, beside ferent forms, hulled, ground and rolled, the latter being fed from a honper as a dry mash accessible at all times. These rations are al a littly o trial, and, if interested in pouitr

Sour Milk for. Chickens
Almost every poultryman who has had exper lence in the raising of artificially-hatched chicken One of the main causes of death among chicks is this disease, says N. E. Chapman, a United States poultry specialist.
It is very prevalent, and investigations have shown conclusively that the original source is
often from parent stock. Many chicks have the disease when hatched, and others contract it from them through feed and forage in infected litter
or grounds.
This transmission from chick to chicks is common during the first three or four davs, and this is the period of great danger,
 This cow, owned by Jas. Bagg \& Sons, Edgely, Ont., gave, in twelve months, This cow, owned by Jas. Bagg \& Sons, Edgely, ${ }_{14,449}$ pounds of ailk and 727.217 pounds butter-fat.

The symptoms are a whitish discharge from the vent, which results in "pasting up behind." The chicks become listless and sleepy, lose appe-
tite, the feathers become rutfed, breathing labored, and they constantly peep or chirp. They may die suddenly or gradually waste away
This disease is being most carefully investigated by the Agricultural Experiment Station at Storrs, Connecticut, and the third report of their Investigations has been pubsisher milk as the best thing to use for a preventive of this disease. It advocates feeding sour milk from the very first and keeping it before the chicks constantly The acidity of the mik acts as a germicide Moreover the milk is an animal product
which chicks require in some form, and it is a great factor in the growth and vigor of the young flock. Of course the commercial chick feeds now so common are fed and pure water supplied, but
iastion on Indue triat Trainine and Technical Education, submitted to parliament at Ottawa last weelk, is a
 based upon nearly
hree years inquiry in three years inquiry in
Canada, Great Aritain, Europe and the United
States. If affords an States. If affords an of modern needs a n d d methods in education. Th e Commission of
seven meñivers under seven memibers under Dr. Jas. W. Robertson
with Thos. Bengough, Dr. Jas. W. Robertson
with Thos. Bugough,
of Toronto, as secre ary, was constituted under direction of th t
former Minister of Labor, Hon. W. L. Me-
Kenzie King on July 6 th, 1910, and began its labor in Halifax.
The Commission pro-
ceeded with the concurrence of the several provinces of Canada, with the utmost cordiality and candor and modes of awakening
constantly. the vessels being cleaned and refilled daily during the first few weeks. Poultry raisers should feed sour skim milk at least after chicks are a few days o stimulate their growth. It dread disease, and production in the laying flock. Numerous experiments have demonstrated that skim milk and stimulating feeds for poultry of all kinds, except very young chicks. Many claim that sweet milk is much safer until the chicks are at least a week or ten days old. There is a constant supply on
nearly every farm, and it should be universally used for the farm flock.

## FARM BULLETIN.

## An Excellent Canadian Jersey

 Record.Large and larger yields of milk and butterfat are being brought to light by the officially Canadian Record of Performance. A hithen creditable one has been completed by a Jersey
cow, Sunbeam of Edgely, 629, bred and owned by Jas. Hagg \& Sons, Edgely, Ont. Commencing her test February 6th, 1912, at five
years two hundred and ten days of age, this cow gave in'twelve months 14,449.9 pounds of milk testing $5.03 \%$ of butter-fat, the total pounds of butter-fat being 727.217 equivalent to
850 pounds of butter, allowing for losses incl850 pounds of butter, allowing for losses incl
dental to commercial butter-making practice The minimum required of this cow to register in 8,500 Record of Performance would have been 8,500 pounds milk and 887 pounds fat, from
which it will be seen that she had nsarly six thousand pounds of milk to spare, while the fat requirement. was consideratly more than doulled Her largest dav's milk was $\mathbf{6 0 . 5}$ pounds. She in the hord, and went to grass with tham. She was milked three times a day for about three mish. From her photograph she is not only type. She was sireel hy Hrampton Kine Edward.

Report of the Education Commis du erest in the purposess and modes of education. One of the preliminary conclusions reached is that all children to the age of fourteen should recsive the is taken to mean formal studies in reading, writig, drawing and arithmetic, together with exprovision fon: work and play with others,
2.-More and better drawing.

- More phystical culture.
.- Nature study and experimental science.
6.- More and better singing.
7.-Organized and supervised play and ganes. Hay ing regara to the cost of the teaching of mental science, and pre-vocational work, includng domestic science in elementary schools, until
teachers are available who have been taught eachers are available who have been taught
them during their school days, and considering them during their school days, and consider at
the time of confederation, the Commission suggests that a fund be created payable to the
Provincial Government of not less than $\$ 350,000$ Provincial Government of not less than $\$ 350,000$
a year for ten years, divided according to popua year
lation.

Expression is given to the common criticism that secondary education in Canada is too book-
ish; tends to give the youth a distaste for ish, tends to give the youth a distaste for manual labor, and dulls any inclination toward journalists who followed the sespions of the Commission who ford on all sides that this country is behind the times in the movements that make - ustrial efficiency

To aid in bringing about the needed eformaation, the Commission recommends a Dominion
development fund of $\$ 8,000,000$, to be provided annually for a period of ten years, and to be divided among the provinces on a basis of popu-
tition. For carryling on this work seven distinct fields of effort are suggested by the Commission, as follows :
1.-The service in each province of an adequate supply of persons, (teachers, instruc-
tors, demonstrators,
executive officers) qualified to carry on industrial trainfing and technical education.
2.-The establishment or extension and main-
tenance of classes, courses schools tenance of classes, courses, schools or other in-
stitutions, or means for industrial training and technical education.
8.-The provision of suitable and adequate apphancos, apparatus and equipment for teach ing purposes, but not including school buildings,
furniture or consumable supplies.
4.-The provision of scholarships to equalive opportunities to young people, and other work ers to profit
5.-The provision of experts with experience in industrial training and technical education, whose services or counsel would be available to
provincial and local authorities. 6. -The service of central in and where required to supplement the wher carried on lyy the several provincial and local development authorities, either by providing and
maintaining or by assisting in providing and maintaining or each central institution
7.-The promotion of scientific, industrial and ledge therefrom. and the Dominion as a whole, the commission believes that special machinery will have to be provided, and recommends six distinct organizalocal rural development boards, provincial development councils, provincial development commissions, a Dominion development conference, The commission emphasizes the proposi
adopting a plan which will preserve provincial control, encourage local initiative and develop
local responsibility, The importance of helo the manufacturing and commercial interests of any locality ready and able to co-operate in carrying out the work emphasized.
higher education, among other conclusions and pressed are these
1.-Secondary vocational education should be provided for those persons who follow manualindustry occupations, producing occupations such as agriculture, conserving occupations such as occupations.
2.-Such persons should have opportunities be as fully advantageons to them in their would tions as the secondary education provides, as the general school system has been advantageous to professional occupations or the leisure class, professional occupations or the leisure class.
3.-Secondary education for those who hav gone to work should be provided in day and
evening classes in close co-relation with the evening classes in close co-relation with their
occupations. while they are still learners occupations. while they are still learners, also
when they have become skilled workmen or journeymen, or have come to fill positions as foremen, superintendents or managers.
In the section relating to individual rights, needs and duties, there are some useful sugges the training of factory workers, and others who operate machines. Special schools for fishermen A distinct feature of the report is the atten-
tion given to the problems of rural communities tion given to the problems of rural communities
obviously important in view of the fact that
while, during the past decade the rufal while, during the past decarde, the rural popula-
tion increased only 664,878 , the city and town population increased $1,258,645$ in spite of all the attention paid to agriculture and the opening up new lands. schools are suggested, and permanency lin case of
the teachers. To get the teachers and cour the teachers. To get the teachers and courses
faced aright is of prime importance in the ele-
mentary schools. Intermediate classes and mentary schools.
schools are suggest
and high schools are advised and outlined rural dent or travelling instructors: field mentines
agricultural greater interest of rural teachers ings and exchibitions ; short courses : farm schools for foreigners; county agricultural and
houseloeeping schools ; greater attention on parte of agricultural colleges to turning out trained instructors and experts, and the formation of local rural development boards.
undoubterdly one report, thus briefly outlined, is laid before the Parliament of Canada, and eve liberal realization of its purposes will prove o ine Chairman, Dr. Robertson, or the Minister to Labor, Hon. T. W. Crothers, will Minister secure, a copy, which every reader of "The

The Work of the Dust Mulch.
Every year is not as wet during the growing season as was 1912 in many districts in this country. Only a small portion of the moisture required by crops falls during their growing period, and it is necessary that some means of cultivation be adopted to conserve it together with that already in the soil. The dust mulch does the work. According to figures shown by the physical department of the farming special with no mulch loses by evaporation 21.310 inches of moisture in a season, while the same soil with an inch mulch loses only 11.180 inches-little over 8.562 inches are lost with a two-inch mulch figure representing the loss from a field on which a three-inch muich is maintained. JI sand
similar results are shown, but the land being similar results are shown, but the land being
lighter and the particles not adhering to gether lighter and the particles not adhering together,
and the land not holding so much water there is less evaporation in any case. With no mulch sand land showed an evaporation of 6.548 inches a one-inch mulch 8.800 inches, with a two-inch mulch 2.996 inches, with a three-inch mulch
2.539 inches and with a four-inch mulch 2.785 i.539 inches and with a four-inch mulch 2.785
inches. Just think what this means. Twentyone inches over a surface 4 rods by 40 rods. or an acre, means 11,910 forty-gallon barrels of
water. Water. A one-inch mulch on this soil means that
only 6,239 barrels would be lost for a saving 5,671 forty-gallon barrels of water per acre A two-inch mulch would allow only 4,821 barrels evaporation saving 1,418 barrels more for the use of the crop than a one-inch mulch. The difference
between the effect of a two-inch and a threeinch between the effect of a two-inch and a three-inch to the latter depth.
While sand does
While sand does not lose so much water by evaporation the results show that just about mulch is maintained as where no mulch is used. A mulch in sand should not exceed three inches as the figures show a greater loss at four inches than at three, and the differences between a one-
inch and a three-inch are in one-half an inch, so that the one-inch mulch may be considered very effective in the case of sand as well as in clay-loam.
One can scarcely imagine a saving of 5,671 acrees, or a 226,840 gallons of water on a single bv cultivating a dust mulch, one inch deep over the surface, and if the mulch on the loam is
extended to two inches then 7.089 barrels, or extended to two inches then 7,089 barrels, or
283.560 gallons would be saved. 283.560 gallons would be saved. Moisture is one
nf the limiting factors in all cron production, and these ficures are worthy of deenest consideration Corn fields, root fields. and summer fallows can
now be benelited greatly by frequent strokes
tho cultivator and harrow

## The National Show Controversy.

The National Winter Live Stock Exhibition still under discussion. Last week a delegation from the Nation Li. Stock Hecord Board laid a pl mission tur agricultural associations in the and ale prow to inquire into the probits authoritie The point at which determined Ho Mr. as ' in accord with the idea, sity of obtaining the co-omeliol different aiciltural all difierent

On June filth another meeting was held by those endeavoring to launch what is termed the National Live Stock, Dairy, and Hortiing agreed to hold their show dout the middle of November this year, or the wetk of ine 17 th but the exact date was left in the hands of the Executive Committee. The matter of electing permanent officials was left in the hands of a cummittee.
There was considerable dissatisfaction expressed by the breeders present as to the date, and the dairymen being against the Novembe sequently and decided to hold a national sairy show in January next. The dairymen appointed a committee, Who aiterwards waited on Hon. Jas. Duff, Provincial Minister of Agriculture.
It looks as though the Toronto City Cound plans to start what they call a national show would never develop into anything more than a local affair, and with the live stock and dairy interests opposed to it and the horticultural men
none too enthusiastic over it how can it ever The Nacceed
$t$ intational Winter Show, if inaugurated, is already establisho interfere with any exhibitions show, held annually The officers of the fat stock that a new exhibition, even though it be started which and 8th, Saturday and Monday December 6th and 8th, Saturday and Monday, set thus so as The promium list for this show will fer fair doubled this year

Milk from Silage-Fed Cows Acceptable.
The Pacific Coast Condensed Milk Company ceased its long in Oregon and Washingtoa, ha correapondent of Hoard's Dairyman. "About three-fourths of the milk produced in Washington goes to this company's plants, and this state, their beginning here, eleven years ago, they have held that milk from silage-fed cows cannot be con-
densed. the dairymen a source of great satisfaction to recently reversed its ruling that the company has receive all the silarc-fed milk available." glad


Some of the stock carried hy the Farming Special now travelling in
Farming Special now travelling in

Buying Eggs on a Loss-off Basis. $\begin{aligned} & \text { resolution asking the Government to appoint cap- best possible condition. Buying on a loss-of hasis } \\ & \text { able insector }\end{aligned}$ On Tuesday of last week, a meeting of the able inspectors to act as referees in any coase of means better eqgs for the consumer and higher
disute arising. Gradually the bad egg is being prices for the producer. Merchanterandling eggs and the important business of agreeing to com- better. When the market, and the sooner the mence on June the ninth to buy eggs on a less- for bad eggs he will be able to pay a higher price of basis done. Froun that date on no bad eggs The producer will get more money for his product,

## Large Federal Appropriations for Agriculture

During the second session of the twelfth parliament of Canada, which was prorogued on
Friday last, considerable legislation was disposed of which is of special interest to farmers.
An important departure was made by the Hon. An important departure. was made by the Hon. Minister of Agriculture in a new bill, the object
of which is to provide money to the provinces for agricultural education. A. number of amend-
ments were made to already existing acts, aimments were made to already existing acts, aim-
ing to increase their value, and there has been a very substantial increase in the appropriations Agriculture, which 'will enable them to extend their work.
THE AGRICULTURAL INSTRUCTIONS ACT. The most important and far-reaching legislaAgriculture is the Agricultural Instructions Act. From the Consolidated Revenue Fund $\$ 10,000$, -
000 is set apart to be expended during a period of ten years to forward agricultural education in. the different provinces. This will be distributed on a population basis with slight modi-
fications, which include $\$ 20,000$ a vear to 'be fications, which include $\$ 20,000$ a year to 'be divided between the veterinary colleges granting
degrees up to the required standard and alloting $\$ 20,000$ to each province regardless of population. The object of this is to give some
special consideration to the provinces where rural special consideration to the provinces where rural
population predominates to a larger extent than
in the provinces containing the large centres of population. The $\$ 10,000,000$ is to be spent during a period of ten years, and the provinces ill share as follows:
the Governor-in-Council to deal with the matter
of compensation, and as a few' regulations have to of compensation, and as a few regulations have to
be issued for the guidance of inspectors, it will probably be September before the new amendment
tMPORTED FRUIT TO BE GRADED. The Inspection and Sales Act has been amendvide for grading and marking imported fruit. This is a matter which especially concerns, fruit growers and consumers in Western Canada, al-
though the regulations 'apply throughout the Dominion. The original Fruit Marks Act was interded to apply to the export trade orily, but fruit for inspection, although no provision . Wa made for marking and inspecting imported fruit During the last few years large quantities of fruit have been coming into Canada, especially
in the Prairie Provinces and British Columbia, in the Prairie Provinces and British Columbia
which is not marked in accordance with the Do minion Act. Canadian fruit growers who have to comply with the Act feel that they are under unfair competition. As the Canadian law can
not be made to apply to American packers, the not be made to apply to American packers, the
atmendment aims to have the Act applied to the atnendment aims to have the Act applied to the make him
the fruit.
INCREASED APPROPRIATIONS FOR THE In most cases the estimates provide for libera increases in the amount available to the different
$1913 \quad$ Yearly $\quad 1917-23$

Prince Edward Isiand

| 1913 | Year | 1917-23 |
| :---: | :---: | :---: |
| \$ 26,529.85 | \$ 1,306 | \$ 31,753.73 |
| 44,509.93 | 4,902 | 64,117.87 |
| 46,094.95 | 5,219 | 66,970.91 |
| 47,334.76 | 5,467 | 69,202.56 |
| 51,730.05 | 6,346 | 77,114.09 |
| 54,288.45 | 6,858 | 81,719.21 |
| 54,296.29 | 6,859 | 81,733.32 |
| 159,482.40 | 27,896 | 271,068.22 |
| 195,733.32 | 35,147 | 336,819.98 |

TO ACQUIRE TERMINAL ELEVATORS The Government is preparing to meet the re terminal elevators. The item in estrimates of the Trade and Conumerce Department for an appropriation of $\$ 4,700,000$ for this purpose was adopted

The Co-operative Credit Society Bill, introMan., by Arthur Meighen. Portage la Prairle, perative societies among farmers which will be of assistance to them in eecuring credit as well
doing ordinary business. This bill was not
and put through this session owing to the preisure of other business, but it will likely be re-introduced and its supporters claim that it will be a valu In the vimited reviston of the tarif which made, the items of spoctial interest to ferment are the placing of ditching machinee on the free list, and the reduotion of the duty on cement from $12 \frac{1}{2}$ to 10 cents per hundred. The duty on duty from dredging machines wlll be especially welcome to those farmers who have land to be
The bill providing for a system of parcels poest in Canada was passed during the last days of the session. The appropriation of the Post omion boxes, and extra expenditure in compection wit ural malil service. money grant to the provinces for the construction of good roads wa: -introduced but amended by the Senate eo that it was not acceptable to the Commont

## Parcels-Post Bill Passed.

The House of Commons and Senate at Ottame have adopted the Parceil--Post mitt, Phtro
duced by Hon. L.P. Pelletier, Postjaster-Cleneral to go into operation within a yeer. The welght limit is eleven pounds ; combined length and ofr
cumference seventy-two inches ; each province to be a zone, the three Maritime Provinces, however be a zone, the three Maritime In addition there will be a local zone irrespective of provincial boun-
daries, the centre being the polint at which the daries, the centre being the point at which the parcel is posted, designed to protect
against the big departmental stores


#### Abstract

If in any year a province does not spend the ull amount of its grant, this may be used at a ater date; or a larger amount, or even the whole grant to any province, may be spent in one year if approved by the Governor-in-Coundil and the province. INCREASED COMIPENSATION FOR HORSES An amendment to SLAUGHTEREDimals Contagiou Diseases Act providtes for increased compensation to owners of horses slaughtered by officers of th Departiment under the Act. At present the maxi- mum valuation for a grade horse is $\$ 150$, and com pensation can only be paid up to two-thirds o pensation can only $\$ 100$. Under the amendment the maximum valuation is raised to $\$ 200$, and com pensation may be pafid up to $\$ 133.33$. For pure-bred horses the value is raised from $\$ 300$ to $\$ 500$, so that compensation may be paid up to $\$ 333.33$. When introducing the amendment the Hon. Mr. Burrell explained that under the old standards injustices were often done to owners of horses. When the Act was put into owners of horses. When the Act was puactical force in 1904 , the price of a horse was prater ly half what it is to-day. A farmer will ofter ly half what it is to-day. A farmer will often have to pay $\$ 200$ or more to replace a horse for have to pay $\$ 200$ or more to replace a horse for which he was paid only $\$ 100$. During last year which he was paid only $\$ 100$. During last year for glanders alone $\$ 60,000$ was paid out in compensation. The number of horses destroyed


## New Brunswick <br> Quebec .. <br> Manitotä <br> Saskatchewan

Total
10
17
$-\frac{152}{638}$
Although the figures for Saskatchewan are still large, there has been a gratifying decrease
over the previous year, when there were 722
destroyed destroyed in Saskatchewan out of a total of 853
for the whole of Canada. The Act empower
branches of the Department of Agriculture, as
the following summary will show :-

## Appropria- Increase

Experimental farms, including the maintenance of the older organized farm at Ottawa, which takes almost one-half of the amount ..........................
Experimental farms, toward establishment and maintenance of additional 1918-14 $\$ 250,000$
350,000 70,000 branch stations Experimental farms (from Public Works Department), new buildings and im provements, tobacco-curing staces, etc., and re-construction of the Indian Head buildings
Experimental farms, printing and distributing reports and bulletins
Exhibitions, for the support of yarge international exhilitions. This year's vote is largely for the international for preliminary expenses in connecconsiderable sum wama exhibition of 1915 .
or renewing and improving Canadian exhibit at Imperial Institute, Lon-
For the development of the dairy and fruit industries, and the improve For the development of the dairy and fruit industries, and the improve-
ment in the transportation, sale and trade in fruit and other agricultural products .................................................................. Tr enforre the Seed iontrol Act, test seeds for farmers and seed mercour age the production of farm and garden crops ..................................... Toward the encouragement of the establishment of cold storage warehouses for the preservation and handling of perishable fruit product For the development of the live-stock ndusury, organizations ...... ...... ....... Health of animals, including the administration of the Animal Contagious Diseases Act, and payment of compensation for animals slaughtered ...... For the administration and enforcement of the Meat and Canned Foods
To encourage the production and sale of Canadian tobacco ..................................... Publications For experiments in cold storage for fruit
Grant for Dominion Exhibition ................................................................. Fominion cattle quarantine lurilding, repairs, renewals, etc. .r.................. National biological laboratory, maintained at the Experimental Farm. Ottawa, for investigation work tural A

The Horse Reigned at Calt． There is one event which makes the town of annual summer．horse show．The thirteenth of these great shows，and the greatest of them all
in entries and attendance was held June 5 th ， 6 th and 7th，in Dickson Park，so admirably situated for such an event．On the edge of the river， and at the foot of a steep slope dotted with trees is a level expanse where horses may be scown to the best advantage，and the natural appreciate this，and even the equine beauties
seem to be inspired to show the best that is in them／when prancing over this select ground． Favored with the best of weather，although a little cool on the closing day，and honored by a
visit from Sir John（Lit．Governor．of Ont．）and visit from Sir John（Lt．Governor．of Ont．）and
Lady Gibson and party，the show just closed eclipsed all former horse showis in Galt．Some
of the old－time exhilitors were abisent，viz．，Hon． of the old－time exhititors were absent，viz．，Hon．
Adam Beck，Hon．Clififord Sirton，Crow \＆ Adam Beck，Hon．Cliford Siltion，J new ones came on strong and Miss Viau，of
Montreal，Jones $\&$ Bates，Ottawa，Capt．Reason， London，and many others stepped in for the ifrst
time and carried off a large portion of the money time and and silver．
The agricultural and heavy－draft sections were filled largely from local districts，but a few were in from a distance．The class for agricul－
tural two－year－olds had nine entries，Lady orlo winning for F．J．Wilson，Riverbank：A Atchison，quelph，getting second on King，and
J ．Mcclure \＆Son，
Brantford，getting third Sandy：Queenie going fourth for A Allan Fried sandy；Queenie going fourth for＇Allan I Fried，
Rosevilie．It was a fair class．In the threo－ year－old class Queen Acre won for James Mar－ Carrick，Roseynile，and Belt，owned by David J． Snyder，New Dundee，fourth．
The heavy good entries．The best filly or gelding three mare exhibited by John Brown，Galt．Baron，a big gelding showed by the Dominion Transporta－ tion Co．．Torontoo went second，and Fred was
third for Frank Adam，Roseville；Dora Duff go mg fourth for Mrs．A．A．Dryden，Galt．
In single dray horses H．Pelton Arst and second on a very big pair of gelding showing good quality；thind and fourth going to
 pairs these horses were placed in，the sam9 order the former two winning the $\$ 200$ cup and $\$ 25$ ．This is the second year in succession that this team
has captured the silverware，so Mr．Pelton bo－
comes the permanent owner of the handsome rophy
Agricultural pairs were headed by Bell \＆ Brantford ；Firstbrook Bros．，of Toronto，getting second，and Chas．W．Moser，Berlin，third．
General－purpose
horses made showing．Maggie and Peach，exhibited by D．B Wood，Hamilton，winning；Rose and Sparkle go－
ng second for Geo．R．Barrie，Galt，and Prince OHzegan and Prin
Petch，Crosshill．
The best registered draft mare was found in
Celtic Maid，owned by Lee Bros．，Galt：Viola Matchless going second for Brown，and Dora Duf third or Mrs．Dryden）：Lady Byron standing
fourth for Allan Fried． ourth for Allan Fried．
Harness horses were
Miss．Viau and Hates \＆ \＆Jones ．putting up $\underset{\text { great exhibition．Miss Viau won the class for }}{\text { single }}$ also getting fourth on I Wonder，and Byplane and Aeroplane getting second and third for Bates \＆ Jones．No mention need be made of these
horses，as they are all well known to those in－ terested in harness ：horses．The class for single Opener，Miss Viau＇s antry，was placed first ove Sir Henry Pellatt＇s great actor Lord Kitchener，
the driver of the latter refusing to take the driver of the latter refusing to take second
place．There were those who would have re－
versed the deceision，but Eve Opener showed at versed the decision，but Eye Opener showed at
his best．
Coing Some was moved up to second for Bates \＆Jones，and Lochry third for F．C．Grenside，Guelph．
In pairs 15.2 and over Sir Wilfred and Earl
Grey，the $\$ 20.000$ wonders from Miss stable，won，with the vory frine team Aeroplane
and Byple and Byplane second．In pairs under 15.2 II
Wonder and Eye Opener won for Miss Viau， Wonder and Eye Opener won for Miss iau．Miss
Eye opener won the $\$ 50$ silver cup for Miss
Viau in the ladies＇harness class，the same ex－ Viau in the ladies harness class，the same ex－
hibitor getting second on I Wonder． class for Bates \＆Jones，the same owners， Aeroplane and Byplane，getimg Viau third
Vial Miss Viau，after a close contest，was adiusted best lady driver，Eye Opener bein！the horse．
Roadsters made their usual strong showing． w．J．Crossen，of Cobourg，winning the lion＇s
share．His Median and Lady C ．won the classes
for single horses，the latter taking the $\$ 100 \mathrm{cup}$ for the best road horse any height．He got 1 st Chimes，and Meaian and Geo．iH．Ketcham Miss Wilks had the best pacer in
and the best filly in Eimma Todd．
and the best filly in Emma Todd．
Saddlers and hunters and jumpers were as usual one of the strongest features of all．Sunny Brook Farms，Eglinton ；Ennisclaire Farms，Oak－ ville；H．R．Turdhope，Toronto get apt．A．Des． Reeson，London，havs was won by The Viceroy from Cork，owned by Ennisclaire Farms，and the
high jump by Shot，from the same stables，go－ high jump by Shot，fín
ing five feet ten inches．
Paddingt on，owned by Ennisclaire Farms，was champion saddier，and also the best Canadian－
bred mare or gelling of the exhilition． Crowds were large on each of the three days
and the 5,000 people present on Saturday linger and the 5,000 people present on Saturday linger
ed until Shot had cleared the hivhest fump，and eere then reluctant to lo lave king horse for an－
other twelve－month．All pronounced the show other twelve－month．An pron proun
the greatest success of its history

## Sale of Ayrshires．

The auction sale of Ayrshires at Terrace Bank who owns and operates one of the largest milk and cream－delivery plants in the city of Montreal，on the 4th inst． $\begin{aligned} & \text { ．} \\ & \text { locew a large crowd of } \\ & \text { loce }\end{aligned}$（hrshire breeders．
The stock was in the pink of condition，and had been nearly all of Auchenbrain，Lessnessock，Netherhall，Bar－ cheskie，or Ardyne was brought out the bidding was keen and the animal usually went at a good
figure．The bidding was keenest on Ardyne J Janet 7 nghe， McAllister，and sired by Not Likely of Hillhouse． It was evident from the start that Mr．McKell wanted this heiifer，but he was hard pressed by some of Howick＇s noted
keen breeders．There was
bidding for
fome heifers imported by Mr．Duncan last summer，and among them were some choice animals．The there being a few bull calves ranging from two days to two weeks old，which sold for low prices brought down the general average．The 64 head were sold by Andrew Philip，of Hunting
don，Que．，in less than three hours． dnn，Que．，in less than three hours．Mr．Philips has become noted among the stockmen as an
auctioneer who can bring out the bids ji they are to be had．
The following gives the names of animals sold
or $\$ 0$ or or over，also the purchaser and price：－ or $\$ 10$, or over，also the purchaser and price：－
Cows：Palmerston Hyacinth
2nd，
R．
R． Howick，Que．，\＄200．Chapmanton Soncie 2nd，
Jos．T．，Elder，Athelstan，Que．，$\$ 200$ ． $\begin{gathered}\text { Chapman－}\end{gathered}$ ton Wyllie 5th，W．W．Begg，Moose Creek，Ont． roy，Ont．，\＄880．Craigley Pansy 2nd，P．D．
 8195．Picken＇s Fancy，John Thompson，Howick
 Ardvne Janet 7 th，Jas．McKell，Riverfild，Que．，
$\$ 8000$
Broomberry
Gav Tass，Jos．Hudson，

 Ronnie
$\$ 160$ ．
2nd，Walter Rodyer，
Lochfergus
Daisy
4th，
Ormstown，
J．R．Wilson I ackolle，Que，\＄200，Three Thorns Duchess Three Throns soncie，Dr．John Watson，Howick
 Gav Lass，
Hector $\begin{aligned} & \text { Gordon，Howick，Que．，} \\ & \text { Lochfergus } \\ & \text { Eppie }\end{aligned}$ 2nd，Melvin Begg，Moose Creek

 McIntosh，Aubrey，Que．，\＄145．Picken＇s vioh

 Aitchison＇s Rank Wlornie 11th，John Watson $\$ 100$ ．Kirkhill Mary
Picken＇s
Printrose
Pid，
Pre，Wm．Wylie，
Dr．John Watson，$\$ 220$ ．
$\$ 180$ ． Picken s Barcelona，Thos．Tevers，Athelstan，
Que．，$\$ 150$ Picken＇s Pansy，John Wilson，$\$ 180$ Aitchison＇s Bank Importance 10 th，John Wilson，
$\$ 130$ ，Lady Molly Duncan
Wm Palmerston Hyacinthe 3rd，Chas．Hyde，Hunting John Watson，$\$ 120$ ．Picken＇s Martha．Mr Milla \＆I Iegrat，\＄172．Southwick Meg 23rd，P D．
 $\$ 250$ ．Picken＇s Missie D．A．Macmanlown Que Howick，$\$ 195 \quad$ Pricken＇s Preston，$\quad$ D．T．Nears Soncie，Hector Gordon，$\$ 157$ Per Pickn＇s Taylor
4 th，Hector Gordon，$\$ 200$ ．Picken＇s Pearl 2nd

J．P，Cavers，
Hyde，
$\$ 1165$.
Picken＇s Picken＇s Queen
Tth，Chas Hyde，$\$ 110$ Picken＇s Teenie，McMillan \＆
Leggat，$\$ 127.50 . \quad$ Picken＇s Peach，McMillan \＆ Leggat，\＄297．50．Castle Carth Creavie Darling， McMillan \＆Leggat，$\$ 125$ ．Fleckie of Terrace Bank，Dr．Watson，\＄110．Heifer Calves：Jean Bank Meg W．H．McNish，Lyn，Ont，\＄102．50 Bulls：Lochfergus Young Marquis，three years old，W．L．Begg，\＄200．Wylie of Terrace Bank， one year old，T．Stewart．Hemingford．Que，
$\$ 105$.
SUMMARẎ．

| ws brought | 2，375 | Averag |  |
| :---: | :---: | :---: | :---: |
| 153 －year－olds brought | 3，585 |  | 239 |
| 20 2－year－olds brought | 4，075 | ＇ | 204 |
| 8 yearling heifers brought | 1，292 | ＂ | 162 |
| 6 heifer calves brought ．．．．． | 498 | ＂ | 83 |
| 13 －year－old bull brought，．．．．． | 200 |  |  |
| 1－year－old bull brought | 105 |  |  |
| 6 bull calves of 1913 brought | 230 |  | 39 |

## Graduates in Agriculture．

The following is a list of the students of the Ontario Acricultural College class of 1913 who
have passed the examinations，and received the have passed the examinations，and received the
B．S．A．Degree．Where a subject appears in
arack brackets the candidate will be required to write
a supplemental examination on that subject before a supplemental examination on that subject bere
obtaining his Degree．R．S．Becket，South Pel－ ham，Ont．；A．G．Bland，Kelowna，B．C．；R．A． Boiddy，Guelph，Ont．；G．G．Bramhill，Harriston， Ont．；R．W．Brown，Bismark，Ont．；R．H．
Clemens，Galt，Ont．；H．Cooke，Johannesburg South Africa；G．J．Culham，Toronto，Ont．；S．R． Curzon，Guelph，Ont．；E．Davies，Brantford，Ont．； W．Davison，Willow Point，B．C．；R．Diaz，Ferrol， soain；G．C．Ellis，J B Grance Tront Ont． P．S．D．Harding，Lacombe，Alta．；L．B．Henry， Winona，Ont．；L．J．Hertal1，Calcary，Alta．；E．
G．Hood（animal chemistry），Hagerman，Ont．； M．H．Howitt，Hamilton，Ont．；G．J．Jenkins， Ont．；H．L．Keegan，Monkstown，Dublin，Ire－ land；H．M．King，Hickson，Ont．；H．M．McElroy
（bacteriolory）Chesterville，Ont．： （hacteriolory），Chestarville，Ont．：D．Mckeel，
DesMoines，Ia，U．S．A．；F．C．Millen，Guelph， Nixon，St．George．Ont．；J．W．Noble，Horning＇s
Mills，Ont．；E．F．Palmer，Victoria，B．C．；H．E． Presant，Fuelph，Ont．；C．Rocers，Johannesburg，
South Africa；H．S．Ryrie Oakville，Ont．；F．D． Shaver，Cainsville，Ont．：A．W．Sirett．Rosseau， Ont．：H．Staniforth，Grazelhrook，Manchester， Encland；J．L．Tennant，Falkland，Ont．；W．H
T．Tisdale，Paris，Ont．＇O，A．Trecillus，Calcary， A Webster，Dundas，Ont．；G．Wilson．

## Meadows Backward

Notwithstanding the extraordinary catches of clover and＇grass seeu obtained in the wet sum－
mer of 1912，the unusually safe wintering of the same．and the excentional spurt of early growth this spring，meadows in the fore part of June were anything but promising．Observations in
Middlesex，Waterloo，and other counties repre－ sentative of Western Ontario by members of the Farmer＇s Advocate staff，indicated that pastures were very poor for this season of year，and even new－seeded meadows by no means uniformly good
Cold weather duriny May，with several frosty nights，had given a check to growth，while，by al appearances，white grubs were injuring the roots of the grass in many old pastures．From
Fastern Ontario，and the north shores of the St． Castern Ontario，and the north shores of the St．
Tawrence，in the Province of Quebec，the Trade Rulletin had received numerous complaints，one farmer who had recently driven through Glen－ carry，stating that he had never seen the hay
fields and meadows in a more backward condition at the season．Scome farmers had stabled their cows and were feeding them with hay．Later advices were more hopeful，however，and with favorable weather there is still chance for a fair
cron．Some new seedings are found to be ex－ cellent．Spring grain seems to be coming along ar advanced for the

British Trial of Milking Machines． At the Council meeting of the Royal Agricul－
tural Society of Fngland held Frnest Mathews，Chairman of the Dairy Committee，announced the results of the trials
of milking machines which were carried out by the Society at Grange Hill Farm，Bishop Auck－ land，Co．Durham，from April 22nd－25th， 1913.
It was decided upon the report of the judges to It was decided upon the report of the judges to
avard the first prize consisting of the Society＇s，
U＂ Milking Machine sent（\＄121．67）for the＂Omega＇ Milking Machine sent over from Flen，Sweden，
and the second prize consisting of the society＇s Silver Medal and $£ 10$（ $\$ 48.67$ ）to Messrs．
Vaccar，Ltd．，of Denman Street，London，S．E． I complete official report of the trials will be published，and the prize machines will be exhibit ed at the Society＇s annual
Bristol from July $1-5$ next．
．

## THE ROYAL BANK OF CANADA

Capital Authorized - $\$ \mathbf{2 5 , 0 0 0 , 0 0 0}$ Gapital Paid Up-
Reserve Funde 11,560,000
13,000,000 head oficiae: MONTREAL Branches throughout every Provinc
of the Dominion of Canada.

Accounts of Farmers invited. Sale Not

Savings Department at all Branches

## Markets.

## Toronto

## beview or mark's market

 West Toronto, on Monday, June receipts at the Union Stock-yards num bered 107 cars, comprising 2,226 cattle, 322 hogs, 418 sheep and lambs, 30 calves, and 6 horses. No business tran eacted. At the City yards there- were10 cars, comprising 177 cattle, 58 hogs 114 sheep and lambs, and 71 calves Trade at this market was quiet. Steer and heifers sold at $\$ 6.25$ to $\$ 7.10$; cows $\$ 4.25$ to $\$ 5.75$; caives, $\$ 7.50$ to $\$ 8.50$ per cwt.; sheep, $\$ 50$ to $\$ 6.50$ per cwt. lambs, $\$ 6$ to $\$ 6.50$ each. Hogs wer 39.50 f. o. b. cars.
(h) of live stock at th week were as follows

|  | City. | Union. | ot |
| :---: | :---: | :---: | :---: |
| Cars | 16 | 352 | 68 |
| Cattle | 189 | 4,973 | 5,163 |
| Hoge ...... | 125 | 7,036 | 7,161 |
| Sheep ...... | 378 | 1,407 |  |
| Calves | 180 | 951 | 1,131 |
| Horses |  |  | 76 |

The total receipts of live stock at wo markets for the corresponding wee : 1912 were as lollows

|  | City. | Union. | Total. |
| :---: | :---: | :---: | :---: |
| Cars | 208 | 256 | 462 |
| Cattle ........... | 2,384 | 8,304 | 5,688 |
| Hoge ...... ...... | 4,639 | 5,350 | 9,989 |
| Sheep ...... .... | 1,110 | 845 | 1,455 |
| Calves ...... .... | 1,173 | 121 | 1,294 |
| Horses . | 29 | 53 | 32 |

The combined receipts of live stock a etwo markets for the past week show
decrease of 94 cars, 526 cattle, 2,828 ogs, 163 calves, and 6 horses; but an increase of 380 sheep and lambs, compared with the corresponding week 1912. Receipts of live stock were moderately arge, but not equal to those of the sam week for last year. The quality of catle was good, and a fow loads of extra choice were on sale. The prices paid were about on a par with those reported in our last market letter. One or two loads sold at a little more money, but the quality of the cattle made up or larger price paid, so that, all thing no an
sidered, values of cattle were not any sidered, values of cattle were now higher than in our last market report. Exporters.-Lunness \& Halligan boug cour carloads of export steers,
1.350 lbs. each, at $\$ 7$ to $\$ 7.40$, but only one load at the latter price, account for the extra price paid.
$\left|\begin{array}{l}\text { weights and quality sold to the local } \\ \text { abattoirs and wholesale butchers, at } \$ 6.9\end{array}\right|$ to $\$ 7.25$, and in one instancers, $\$ 7.35$ was
paid by the Montreal Abattoirs Company paid by the Montreal Abattoirs Company or a very choice load of steers; good to
choice butchers' steers and heifers, sold at $\$ 6.60$ to $\$ 6.85$; medium, $\$ 6.15$ to
$\$ 6.60$; common, $\$ 5.75$ to $\$ 6$; choice cows
$\$ 675$ $\$ 6.60$; common, $\$ 5.75$ to $\$ 6$; choice cows,
$\$ 5.75$ to $\$ 6.25$, and in a few instances
$\$ 6.50$ was paid $\$ 5.75$ to $\$ 6.25$, and in a few instances
$\$ 6.50$ was, paid for extra quality cows;
good cows, $\$ 5.25$ to $\$ 5.65$; meditm cows, $\$ 4.75$ to $\$ 5.00$; common cows, $\$ 4$ to $\$ 4.50$; choice bulls, $\$ 5.75$ to
$\$ 6.25$, and in a few instances $\$ 6.40$ and $\$ 6.25$, and paid for extra quality bulls; $\$ 6.50$ was paid for extra quality bulls;
medium bulls, $\$ 5.25$ to $\$ 5.50$; common
bulls sold bulls sold at $\$ 4.50$ to $\$ 5$.
Stockers and Feeders,-Feeders, 800 to
850 1bs., were selling at $\$ 6$ to $\$ 6.25$
and $\$ 6.35$; stockers, 600 to 700 lbs., at and $\$ 6.35 ;$ stockers, 600 to 700 llbs., at
$\$ 5$ to $\$ 5.75$, light Eastern stockers, 500
to 650 lbs. each, and of inferior quality, $\$ 5$ to $\$ 5.75$; light Eastern stockers, 500
to 650 Ibs. each, and of inferior quality,
sold at $\$ 4.60$ to $\$ 5.10$ sold at $\$ 4.60$ to $\$ 5.10$.
Milkers and Springers. -Receipts
mikers and springers for the past w were moderate, for which there was a
good demand
Prices ranged from $\$ 45$ good demand. Prices ranged from $\$ 445$
to $\$ 85$ each, the bulk of the cows selling at $\$ 50$ to $\$ 65$ each.
Veal Calves.-Receipts of veal calves
were not equal to the demand, and prices were firm all week. Choice calves sold at $\$ 8.50$ to $\$ 9$ per cwt.; good at $\$ 7.50$
to $\$ 8.40$; common calves at $\$ 6$ to $\$ 6.50$ and inferior at $\$ 5$ to $\$ 5.50$.
Sheep and Lambs.-Receipts were not
large enough for the demand, and price large enough for the demand, and price
were firm all week. Ewes, light, $\$ 6$ to $\$ 7$ per cwt.; heary ewes and rams, $\$ 4.5$ $\$ 8$ per cwt.; spring lambs sold at $\$ 5$ to $\$ 8.50$ and $\$ 9$ each,
Hogs.--The hog marrket was the highest
the year thus far, selects, fed and watered, selling at $\$ 10$ to $\$ 10.10$, and $\$ 9.70$ to $\$ 9.75$ to drovers, lor hogs f .
b. cars at country points, and $\$ 10.80$ . cars at country points, and $\$ 10.30$
$\$ 10.35$ was paid for hogs weighed off

| cars. |
| :--- |
| Ho |

Horses.-Trade at the Unfon Horse Exchange was very quiet for the past week
and not as good as it should be at this season of the year. Not only at the season of the year. Not only at the
Union Exihange, but all the other sale stables report a slow trade. The supply
of horses was fairly large. Few were of horses was fairly large. Few were
sold to go outside the city, it being alsold to go outside the city, Prise
most entirely local demand. Prices held
about steady, as follows : Drafters, $\$ 175$
onso; general-purpose horses, $\$ 150$ to about $\$ 250$; general-purpose horses, $\$ 150$. to
to
$\$ 2255 ;$ express horses, $\$ 180$ to $\$ 225$;
drivers, $\$ 100$ to $\$ 150$; serviceably sound,
$\$ 45$ to $\$ 90$ each.

Wheat.-Ontario, No. 2 red, white or mixed, 96 c. to 97 c. outside; inferio
grades, down to 70 c.; Manitoba, No. grades, down to 7oc.; Manitoba, No. ${ }^{1}$ no.
northern, $\$ 1.01 \frac{1}{i}$; No. 2 northera, 99e.
 Rye-No. 2, 6ac.
ley-For malting, suc. to 53 c .; for feed,
43c. to 48c., outside. Corn-No. 8 yel-
年 low, 59c. to 59 c c.,
Toronto. Peas- No. $2,95 \mathrm{c}$. to $\$ 1$, out-
side. Buckwheat-No. 2, 49c. to 50 c,
 winter-whent flour, $\$ 8.90$ to $\$ 8.95$, wea
board. Manitoba flour-Prices at To-


hay and millfeed.
Hay.-Baled, car lots, track, Toronto,
Ho. 1, $\$ 12$ to $\$ 12.50$ per ton; No. 2,
${ }^{\text {No. }}$
Bran.-Manitoba, $\$ 17$ per ton; shorts, \$19; Ontario bran,
$\$ 19$, car lota, track, Toronto.

COUNTRY PRODUCE
Butter.-Market easier on account
larger supplies.
Creamery pound rolls,
larger supplies. Creamery pound co to
28c. to 29 c .; creamery solids, 27 c . to
28c.; separator dairy, 25 c. to 26 c .,
lots, 22 c . to 23 c .
Eggs. - Market steady, at 21 c . to 22 c .
case lots.
Cheese.-New, twins, $1+\mathrm{c}$.;
large. 13 c ,
d, twins, 15 c .; large, 14c.
Honey.-Extracted. 13c.: combs, $\$ 2.75$
$\$ 3$ per dozen.
5c. per bag for car lots Nontarios,
nd 80 . to $\$ 1$ per lag for New Bruns
nck nclawares, track. Toronto.
ick nelawares, track, Toronto.
Poultry - Receipts light, but quite equal
o the demand. Turkeys, dressed, 20 c

22c.; hens, dressed, 18 c . to 18 c . pring chickens, dressed, 40 c . to 45 c . per
bi; spring chickens, alive, 30 c . to $\mathbf{3 5 c}$.
per lb . per lb .
Beans,-Car lots, track, Toronto, hand-
picked, $\$ 2$ to $\$ 2.25$ per bushel, and hides and skins No. 1 inspected steers and cows, 13 c.;
No. 2 inspected steers and cows, 12 e.; 2 inspected steers and cows, 12 c .;
3 inspected steers, cows and bulls. c.; city hides, flat 12 te.; country hides, cured, $12 \frac{12}{} \mathrm{c}$; country hides, green, 11 c c . calf skins, per lb., 16 c .; deacons, each,
$\$ 1.10$ to $\$ 1.25$; lamb skins and pelts,
15 c . to 25 c . each; sheep skins, $\$ 1.50$ to 15 c . to 25 c . each; sheep skins, $\$ 1$
$\$ 1.75$ each; horse hair, 37 c . per
horse hides, No. 1, $\$ 3.50$; tallow, horse hides, No. $1, \$ 3$.
per $1 \mathrm{lb} ., 5 \mathrm{f}$ c. to $6 \ddagger \mathrm{c}$.

## wool.

Unwashed, coarse, per 1b., 14c.; washed coarse, 24 c .; unwashed, fine, 15 c.; washed
fine, 26 c .
fruits and vegetables.
The apple market is over for the pres-
ent; onions, $\$ 2.75$ to $\$ 3$ per sack ol 112 .
lbs.; beets, $\$ 5 \mathrm{c}$. to to 40c. per bagk carrots 40c. per bag; parsnips, per bag, 50c.
asparagus, 50c. per dozen bunches; Am Am
erican strawberries, 32 quart cases, sold erican strawberries, 32 -quart cases, sold
at 14c. to 16c. per quart; new potatoes at 14c. to 16 c . per quart; new po
"American," sold at $\$ 7$ per barrel.

## Montreal.

Live Stuck.-There was a moderately
ctive demand for cattle in the local market last week, and trade was of fair volume. Offerings were large, and the price tended downwards. Finest sold at c. to $7 \frac{1}{c} \mathrm{c}$. per lb ., fine bringing 6 ft ., and good $6 \frac{1}{}$ c. to $6 \frac{1}{c}$ c. Medium cattie ranged from 5 fc . up to 6 tef, and common sold as low as 8 g c . per lb . Small meats continue in good demand. Sheep were rather lower, and sales took place at 6 c . per lb . Choice spring lambs were scarce, and ordinary stock sold at $\$ 5$ to and sales $\$ 2$ to $\$ 4$ each, and of better quality at \$5 to $\$ 8$ each. Select lots of hogs brought 10 tc . to $10 \frac{3}{\mathrm{c}}$., weighed ofl cars. Horses.-Heary-draft, 1,500 to 1,700 lbs., $\mathbf{8 8 0 0}$ to $\mathbf{\$ 3 5 0}$; light-draft, $\mathbf{1 , 4 0 0}$ to 1,500 lbs., $\$ 225$ to s.00; light torses 1,000 to 1,100 animals, 875 to $\$ 125$ and choicest saddle and carriage animals, 3350 to $\$ 500$ each.
Poultry.-Turkeys, 28c. to 24c. per 1 lb . geese and fowl, 15c. to 17c.; ducks, 20 c to 22 c ., and chickens, 18 c . to 19 c . Dressed Hogs.-Abettoir - dressed, tresh Potatoes.-Prices advancing weekly owing to scarcity. Green Mountains wer
selling here, on track, in carloads, selling here, on rack, in while Quebec 75c. to 80c. per eelling at 60 c . to 70 c Sales were taking place in a smaller way at an advance of 25 c . to $\mathbf{3 5}$ c. upon thes
Syrup and Honey.-Fair demand for maple syrup, at 85 c . to 90 c . per tin, and
at 7 c . to 8e. per lb . in wood. Maple at 7c. to 8c. per 1b. in wood. Honey,
sugar still 11c. to 12c. per 1b. Hen sugar stil 1hc. whitoclover comb being dull and slo per lb., and extracted 11 te 16c. to 17 c . per 12 c .; dark comb, 14 c . to 15 jc ., and strained, 8c. to 9 c .
Eggs.-Quality of the stock arriving ot quite so good, although better than usual at this time of year, owing to the in a jobbing way, and straight receipt 21c. to 23c., according to quantity. Butter.-There wes practically no chang in the market for butter last week, although sales took place in the Eastern
Townships at slightly lower prices than Townships at slighty lower prices than
the week before. Finest creamery was
still quoted here at 261 c . to 28 foc ., in
wholesiale way, and fine stoclk might be had at about ic. below these prices.
Dairy butter was unchanged, 23. Monday's prices registered a de cline of a cent in creamery. Cheese.-Market has shown a slightly lower tendenicy, and Western white was quoted at 12 kc . to 12 jc c., colored boing about under the figuree quoted for Western tc. under the figuree quated for western
Monday's quotations fractionally lower. Grain.-No. ${ }^{2}$ Canadian Western oats,
41c. to 41 j c., ex store; No. ${ }^{2}$ extre feed, 41c.; No. 1 foed, 40 . to 40 led, 41c.; No. 1 feed, 400 . to 40 Hc .
while No. 8 Canadian Western wore 39 cc ., and sample oats, 38 jc c. to 39 jc . On
tario malting barley, 61 c to 63 c . tario malting barley, 61e. to 680., ex
store. Manitoba No. 3 barley, 56 , while No. 4 was $55 \mathrm{jgc}$. ., and feed, 50 c . per bushel. No. \& yellow corn, 66 fc c., Flour. $\$ 5.40$ per barrel for Manitoba frst patents, in bags; $\$ 4.90$ for seconds,
and $\$ 4.70$ for strong bakers.
Ontario winter-wheat flour, $\$ 5.25$ for patents, and $\$ 4.75$ to $\$ 4.85$ for straight rollera, Millfeed.-A decline of $\$ 1$ to $\$ 2$ a ton
in mouille. Bran steady, at $\$ 17$ a ton, in mags, and shorts 819 , while middlings
were $\$ 22$. Mouille was quoted at 880 to $\$ 32$ per ton for pure, and $\$ 26$ to $\$ 28$
or mixed. Hay,-Easy, at $\$ 12$ to $\$ 18$ por ton tor No. 1 baled hay, car lots, tracky $\$ 11$ to
$\$ 12$ for No. 2 extra; $\$ 9$ to $\$ 10$ for No. 2 ordinary, and $\$ 8$ to $\$ 9$ for ordinary. Hides.-Prices were higher on lamb
skins. Beef hides, 11 fe ., 12 je . and
 190. per lib., respectively, for Nos. 2 and

1. Lamb sikins were 17 ac and 190, anch,
and sheep akins were $\$ 1.15$ eich, hore and sheep akins were $\$ 1.15$ eich, horel
hides being $\$ 1.75$ and $\$ 2.50$ ench. Tal-


## Buffalo.

Cattle,-Prime steors, \$8.25 th 88,40 ; shippling, 88 to 88.15 ; butchers', 8740 87.25; cows, $\$ 8.75$ to 87 ; bulls. $\$ 5.76$ heifers, 85.50 ta 86.25 ; stockore and food ars, 86 to 87.75 ; freen cown and spria ers, 835 to $\$ 85$.
Veels. $\$ 6$ to 811.25
Hoge.-Heavy, mized, and Yorkern, $\$ 0.05$ to 89.10 ; roughe, $\$ 7.85$ to 88 ; thags, 86,50 to 37.25 ; dairies, 88.85 to \$9.10; pigs, 80 to $\$ 9.10$.
Sheep and Lambs.-Kampn, \$4.50 to \$7.25; yearlings, \$6 to $\$ 6.50$, wothors. $\$ 5.75$ to 86 ; ewes, ss ta $\$ 5.25$; shoop. mixed, 85.40 to $\$ 5.60$.

## Cheese Market.

stirling, Ont., 12 1-16e. to 12 fe ; 1 Ing ton, Ont., 11 tc .; Rreekville, Ont., 11/e.; Kemptville, Ont., IIle.; Napanee, Ont.. 11 18-16c.; Picton, Ont., 11fo.; IToquols, Ont., 11/c.; Corawall, Ont., 11le. to ding from 11 dc . to 11 fe e; si. Hyaciethe, Que., $11 \mathrm{5}-16 \mathrm{c}$. ; butter, 24 je c ; Cownae ville, Que., butter, 25ile. to 25fe.; Bolle ville, Ont., 11 11-100; Watortown, NV. צ. ville,
18fe.

## Chicago

Cattle:-Heeves, 87.20 to 88.00 : Torai ateers, 86.70 to 87.75 ; stoctern and topeorb, 6 to s8.05; cown and hollors, \$8.65 Hogs.-Ters, 88 to 89.40 to 8 e.70; mixed $\$ 8.35$ to $\$ 8.70$; heavy, 88.10 to $\$ 8.65$ rough, $\$ 8.10$ to $\$ 8.80$; plge, $\$ 8.65$ to *8.s0.
Sheep and Lambs.-Sheop, native, 84.90 to $85.85 ;$ yearlings, 85.50 to 86.50 lambs, 85.25 to $\$ 8.23$.

British Cattle Market
John Rogers a Co. repport 1 se :

Letters from Abroad.
on mediterranean shores. xit. Rome, May 5, 1913. My dear Jean,-There is a movingpleture show running in Rome now. which is creating quite a sensation called "Quo Vadis," and the scenes are saken from the book of that name, by
Slenkiewicz, which you have probably reed. The show is advertised all over the city by flaming posters, depicting bloody scenes in the Coliseum, and Rome all ablaze. Everyone said we should go, because it was such a fine lesson in go, because it was such a fine lesson in
history, and gave, one such a vivid impression of life in Rome during the time of Nero
So we went.
If was more then interesting; it was obicively thrilling. We saw the bloated cruel, hall-mad Nero in his Golden House playing upon his lyre, and surrounded by his syeophantic courtiers. There was a grand banquet scene, ending in a wild becchanalian orgy in which the Roman blue-bloods got so drunk 'they fell of their chairs, and were piled three deep on the mosaic floor. Then, suddenly the scene shifted and we were out in the moonlight hurrying along the Appain Way with a silent group of shrouded gures." We stole into the subterranean pasagges of the Catacombs, and by the light of flickering tapers, saw Saint Peter taiking to his followers. Then we were back in Nero's palace, and saw him plot The conflagration of the city was a fer lectly marvellous representation of fre and panic : peopilo rushing madly throug ho-narrow crooted streots buildings blazing and fallinge thick louds of smoke through which dim forms could be soen groping their wey; terrified nimals dashing pell - mell through the rowd, and a perfect,y hair-raising scene howing the interior of a lion's den in the Coliseum, with the terrified brutes pacing up and down in the red glare o the burning city
Then came an afternoon of sports at combats, and finally the terrible scene where the Christians are thrown out to pictured with Nero in the royal box, the vestal virgins in the one directly oppoite, and an excited audience of eighty thousand spectators ranged tier above diers entered the underground cells a the Christians. There was weeping, and ontreaty, and protestation, and tragic partinga and farewells, and then, at the point of the sword, they were driven out ored. They were huddled together in one ad. group awaiting their doom. trap-door opened in the ground, an after a moment of awful suspense, ou leaped a gigantic hion, then another an rutes, were pacing the ground and niffing the air. They sighted the
lood-curdling picture - There was Christians just before the the tens pounced
chicen them, and another picture and his Court laughing merrily at the gay sight; and there was a ghastly scene he ground strewn with hair their repast, and other unpalatable things. Two lions and marrul @ight over a savory morsel and made the sand fly to such an exing all over me. Harmony got so riscited she grabbed my arm in sheer terror, and Miss Morris held her breath so long she nearly strangled. I wish one of
those savage lionis could have made a those savage lions could have made a
meal of Nero, and eaten him slowly meat of Nero, and eaten him slowly.
What brutish people those early Romans were I 'Death was nothing to them, but hey loved the process of killing, and
never seemed to really enjoy life unless blood was flowing.
When we came out of the hall after we two-hours' residence in ancient Rome,
we were so red-eyed and dazed that ore we could get adjusted to that be plexities of the street-life of modern Rome we
trolley-car.
Were nearly run over by a
Harmony was so upset and cross, and excited, that I thought would have to change her name, but she the English Tea-rooms.
To tell the truth, Jean, I have had such an overdose of ancient Rome and I have gone to the other extreme, and have beten studying modern Rome as revealed in the Montessori schools, which ree the very latest cry in education for
children. You have probably read carticles. about have probably read schools in the American magazines. Prominent educators from all over the
world are coming here to investigate her method. This year she has had her first class of instruction for teachers. There were ninety pupils, mostly all English
or American. I have met a number of or American. I have met a number of
them, and must say that I never encountered such enthusiasm in my life. Dr. Marie Montessori is a very brilliant Italian woman, who has been nurse, doctor, scientist, and philosopher, and,
after years of practical experience, has arter years of practical experience, has
vel a new system of education for children which is quite opposed to all previous systems. If universally adoptenthods, and put the kindergarten-ac merdids, and put the kindergarten-
cording to Froobel-out of business. In the Montessori schools the child is old no lies; fairy tales and foolish little theres is no class-work tabooed entirely. There is no class-work; each child works
ndependently, and has personal supervision.
Children do just as they to say that the the class is quiet and orderly, and that really true. Can you imagine a class of twenty children, varying in age from different, and each one happily absorbed in his or her own work? Little tots things, and they are never remarkable persuaded. When they do a thing, it
is because they is because they are interested and want
to do it. The teacher observes and guides, but never drives. Quite a contrast to the spare-the-rod-and-spoil-thechild theory of past days, isn't it ?
When I saw kidlets of three sitting on the floor working out sums in arithmetic with bocks and transterring the results to slates, and apparently exjoying it, my
mind harked back to those dreary hours long ago when I tried to learn by rote hat awful bugbear of childhood's happy
hours-the multiplication table. I really am not quite sure of it yet, but I try
to keep the fact a dead secret, especially
lightning calculators, and can do sums
in their heads. After seeing the Mon-
tessori pupils, I felt quite convinced that
my mathematical deficiency was due to aulty early training. It is a great to lief to me to think that someone else is
The last

The last Montessori class I attended was in a convent. The Sister in charge
was robed in white, and had a beautiful face, like the picture of Saint Cecilia. She brought the class to order by writ-
ing upon the blackboard the Silenzio." (Silence.)
Every child was immediately as still as a mouse. It seems surprising to think such young children could read the
ritten word, but if you could see their ritten word, but if you could see their
hand-writing you would wonder no longer. No babyish pot - hooks or chicken-scratches-but beautifully-rounded
writing writing any grown-up might be proud
of. And they never learn to write; they acquire all the nevessary hand-movements by preliminary drawing exercises, so that when they are ready to write, they do
it quite naturally I quite naturally.
was started with an exercise in silence, for the Italians can make more unnecessary noise than any people on earth.
Screaming seems to be their soft stop. Perhaps a generation or so of Montessorieducated chlldren will soften the strident voices of the street and make a prome-
nade less ear-splitting. I wish the trolly less ear -splitting. I wish the
and automobiles, and churchbells of Rome could have lessons in
But I must tell you about Harmony' sad experience while out shopping. She has been feeling rather chesty lately
about her progress in phrase-book Italian, and has worn at times a superior air
quite irritating to the rest of yesterday she came in looking very; crest fallen. She had gone out to buy some condensed milk, but came home with a box of matches. She did not want to
go as far as the English grocer's, so went into a little Italian place nearby and asked the clerk in her best Italian for a can of condensed milk. Her lanthe man looked as blank as a wall. She tried him in French and German with the same success. Finally she took a pencil from her bag and drew a picture
of a cow, whereupon the man's face cleared at once. He He rushed to the bace
Hent of the shop and came back carrying a can of corned beef, which he planted on the counter with an air of triumph.
"No, no !". she said
He was immediately plunged into the
blackeat depths of despair, but sudden blackest depths of despair, but suddenly
brightened, and brightened, and disappeared from view
under the counter, emerging from under the counter, emerging almost im-
mediately with a can of ox-tail soup. 'No, no!'" she said again, pointing sternly to the milking department of the cow, and drawing a pail underneath it.
"Ah, si, si,": he exclaimed, nodding his head affirmatively, and disappearing
again. Before you could say. Jack Robinson
he was back again he was back again dangling before her a
shining tin pail. "No, no !" cried Harmony por the third time. Then, driven to for the
extremity, she last extremity, she took her pencil and con-
nected the milking department and the pail together by a stream of lead-pencil milk.
This touch of realism was effectual.
He understood, He understood, but shoork his head sadly
and regretted that he had not end regretted that he had not the
article desired. so Harmony bought a box of matches
and came home in a very depressed con Our travelling party has dwindled to
three again. Mra Our travelling party has dwindled to
three acain. Mrs. Russell was sum-
tiloned back to America
ness, and departed last week from Naples. I suppose the archeologist saw her
safely off. Judging from the shoals safely off. Judging from the shoals of
letters 'that passed between them, and her increasing preoccupation of mind, feel sure that Cupid has been doing some skilful shooting in their vicinity, and that Jack's chances are forever lost.
But I'll try to find him another sirl But I'll try to ind him another girl, so
bid him not despair. I'm waiting anxiously for your letter to arrive to say when you are coming .over here.
Do hurry
laura.
The O. S. A. and Its Pictures.
SUGGESTION TO PUBLIC Litbrary
don't wish to cross swords with w. . on the merits or demerits of the pic tures hung at the Forty - second Annual Exhibition of the Ontario Society of Artists, but when he says, "It would surely seem further desirable that a na rowing, selective policy, however con ceived in the interest of high standards should be avoided," and that the society tion." the exclusion of the Toronto artist to Province, he is overlorking the of the very few hoverlooking the fact that very few city, futho artists are native of portions of ther all tions of their fellown tion associa of their efiorts. How many people in a town of eigh or ten thousand buy pictures, and ho an aspiring artist art There is doubt in great many buds of my mind that killed by the atmosphere into which the are born, and this does not necessarily say that they were not healthy buds. You will come upon a magnificent specimen of a pine; cut the surrounding fores away, leaving the pine exposed, what happens? The pine withers and dies.
The proper environment is in the development of art as is in other form of life. One of the main objects of the society is to foster art in Ontario, especially the young artist. It successful exhibition some standard must be maintained, and it is gratifying to think that this standard, as the years the limited space higher. Add to this hanging committee, and it can be readily understood why there are only about one hundred pictures hung.
The O, S. A.
The O, S. A. welcomes with open arms ince, and also tolerates a good deal of The mediocrity.
The saddest phase of artistic activity of the promising young material muc is to be stimulated in the other por tions of the Provisce, it is then the duty
of the cultured people to give it the stimulus of those portion The O. S. A, has held exhibitions co-operation with local people at Pro Why to do so in the future, and is quite Why should not some part of the money spent for books for public libraries be
spent in purchasing pictures? as necessary for a cultured person to have a knowledge of painting as well as
literature? have a knowledge of painting as woll as
literature?
Meadowvale, Ont.

The New Public Health.


over the rest else the gas will be all ketp it so for at least half an hour
ondease and make life after the candles are tighe.
 boards or closes of in the room, or cup-
ant
any books you wish disinfected open end, turning the coveras bacted outil on they
meet, and fastening them open with
string or string or elastic bands. Spread out all
clothing, bedclothes, etc., on lines strung across the room, and in general explese
as much as possible of the surlaces of everything that needs disinfection. Place the pails to cover equal areas
down the room. three pails. Place them all in required three pails. Place them all in the mid-
dle line the long way of the room,
the first the 1 irst $3 \frac{1}{1}$ leet from the end, the next
seven feet away from the first, the next
$3 \ddagger$ feet from the other pail empty the other end. Into each
potassium punce package of potassium permanganate;
crystals evenly over the down beside each pail the jug cor-
responding to it, containing the formalin and water. Then look carefully all over your preparations to see that you have
missed nothing, and that the pails jars are not close to anything inflammable, like paper or cotton dresses. Then
place the pail of water and suffcient place the pail of water and suffcient
strips, ready wetted, you intend to go out by. Have the key of this door ready also, in the lock outside. Remember, above all, to be sure
thet the cat or the dog or the baby is that the cat or the dog or the baby is
not asleep in the room or hidden under a bed. Then take up the jug furthest
from the exit, pour it into the pail; set the empty jug down; go quickly to the
next furthest, and do the same; then to next furthest, and do the same; then to
the last; skip out, close and lock the door instantly and plaster up the top,
bottom, sides and keyhole with the wet paper, just as quickly as possible. Now
climb up and look through the transom. The room will be as steamy, as the Kitchen on washday. If you can see to the bottom of the pails, you will note that they are already quite dry, and the
beeutiful permanganate crystals are beeutirul permanganate cry
turned to a dirty-brown mass.
Theave go the room so for four hours. open the windows to air the room. If
they are above the ground floor, it will hey are above the ground floor, it will
be well to fasten a stout cord to the upper sash before you set off the disin-
fectant, letting the cord hang down to fectant, letting the cord hang down to the ground, so that you can pull the
windows open from outside. This is the windows open from outside. This is the
best method to date for gaseous disin-
fection for disease germs. fection for disease germs.
What happens is this. Permanganate
and formaldehyde unite chemically, giv-
ing off a tremendous heat $:$ in the for-
mula here recorded, there is twice as much formaldehyde as is necessary to
combine with the permanganate: it is this extra formaldehyde which is set the nine ounces of water that was added. So you really have set free in the room the formaldehyde gas from about $5_{1}$
ounces of the formaldehyde solution : the ounces of the formadidende 11 ounces: and
water from the whole 11 out the nine ounces of water you added, or
the gas.
The reason for using the water is this: The reason for using the water is this:
No disinfectant gas, even pure chlorine, will kill really dry germs in a really dry atmosphere; while the more humed the
atmosphere, the less gas is needed. For atmosphere, the less gas is needed. For
moist germs, the humidity in the air is unnecessary, but as the germs in a room are likely to be dry, extra humidity is necessary, or else an immense amount of
gas, if you trust to the ordinary humidgas, Humidity is much cheaper than gas, of course.
gas, or need for humidity is one reason
The why formaldehyde in the dry form is so
inefficient. It costs more to begin with, ineing prepared by condensing it from the watery solution, thus taking out the
water which itself is needed for
 added again somenow, It can never be, weight for weight, more than two and a
half times as strong as the 40 -per-cent. half times as often is not more than solution: or even one and half times as
twice, or
strong. The belief that one ounce strong. The belief that one ounce of
the solid formaldehyde is equal to four the solia of the 40 -per-cent. liquid solupoun, is simply nonsense, as any chemist
tion, will tell you.
at least of the candles for every 1,000
cubic feet of space. Four times as much
will be needed, if the steam is not sup
plied as edes. cubic feet of space. Four times as much
will be needed, if the steam is not sup-
plied as described.
Sulphur may Sulphur may be used for disinfection,
four pounds to the 1,000 cubic feet,
burn burned in a pan, set over another pan
full of water in view of possible acci-
dents. dents. Sulphur may be set going by
putting little lighting it. Sulphur needs steam also bugs and roaches, etc., one pound to the
1,000 cubic feet is 1,000 cubic feet is., one pound to the
steam is not neent, and the steam is not needed. Sulphur, of course,
is likely to discolor colored goods, tar
nish metals, etc. Hydrocyenic. make a good disinfectant and kill vermin also, but its use is very dangerous ex-
cept in the hands of an expert, fumes, as well as the solution, are both
very rapid and powerful poisons very rapid and powerful poisons. For
maldehyde disinfection as described abov
cannot be trusted cannot be trusted to kill bedbugs or
fies.
Disinffection by in several leading cetiies after scarlet fever and diphtheria, not because it wa
inefficient, but because the diseases not conveyed through undisinfected rooms sufficiently often to make it worth while. these diseases was abandoned, both scar-
let fever and diphtheria diminished let lever and diphtheria diminished-only
slighty, it is true, but anough to show
that abandoning disinee that abandoning disinfection had done no
harm. Practically the only need for disinfec
tion nowal tion nowadays by gas following our or
dinary infectious. diseases is found in
tuberculosis. When tuberculosis. When a case of lung
tuberculosis in the open stage, dies, or removes from a room, the room should
be disinfected it it is to be occupied within a month or two. The germs die out of themselves usually in that time,
unless the house is exceptionally dark unless the
and damp.
of cour
should not opan cases of tuberculosis there should be no need for at all, so infection of dven ther rooms.
In all cases of
bedclothing, nightgowns, personal cloth
ing, handkerchiefs, etc., of the patien ing, handkerchiefs, etc., of the patien
should be boiled or chemically diainfect should be boiled or chemically disinfect-
ed by immersion in five-per-cent. carbolic
acid.
H. W. HILL.

## a foolish practice.

I know a farmer who waters his horse uses for the family drinking water with out washing it. Is this practice likely
to carry any disease?
Ans.- The chief diseases which may be
carried to the human by drinking from
the same pail, unwashed, as a horso the same pail, unwashed, as a horse of
a cow, are from the horse, glanders; from the cow, tuberculosis. It is cus-
tomary to give a drink to a horse suspected of glanders in order that, whille
he keeps his head down, the discharge in his nose may run down to the nostrils and be more readily seen and ex-
amined. So the dangers in such cases must be evident. Cows, when tubercunus, siort out discharges containing
lubercle bacilli at times, and might thua infect the pail or from their mouth drewlings.
Doubtless
Doubtless some other infections of both
animals, for example, actinomycosis.
might thus be carried. At best, it is certainy an exceedingly shirtless and
silly proceeding, even if the horses and
cot cattle are well, and the people also. It
is on a par with kissing cats or letting
dogs lick the hands, since we are continually putting our hands into our
mouths or touching with them things that go into our mouths. H. w. HILL.
delicate baby
I would like your opinion on a dolicate
alwy. Is now eight months old, has
always wealk digestion and poor as-
similative powers.
water to twelve of milk, feed only every
three hours during the day, and not at
all during the night, giving about six
ounces at a fleding. Baby does not
seem satisfied, sseems hungry all the
time, spits up some of hls food between
leedings which is generally quite sour.
Is very constipated at times, then is taken with looseness of bowwels.

1. Would cutting teeth cause this ?
2. 3. Would cutting teeth oause this ?
1. Is the baby overled that makes him
sit up between fedings spit up between feedings, as he only
weighs ten and three-quarter pounds? 3. What are the gyimptoms of mal-
2. Whee 4. Is a teaspoonful of lime water tour
3. times a day too much ?
5 . Which is best for sour stomach, lime water or fluid magnesia ? K. J. B.
Algoma, Ont. Ans.-1. I am sorry that we cannot
help you to treat the baby. tañe diagnosis and treatment in the case of humans is too risky for any eputable physician to undertake. We have an absolute rule against it. From
the symptoms you deseribe, the child might have much or little wrong. The only right and proper advice is that you
see the best baby-doctor you know of and follow his advice. 2. No. Cutting teeth as an explaneploded. It never had any loundationut tradition and ignorance.
The individual case of disease require always and livariably, first and forenost, a diagnosis, the determination of
what is actually wrong. Then comeo what is actually wrong. Then comoen
the hunt for the cause. The plan of treatment is eimple, after the cause of
found. It is for the first two thinge found. It is for the first two thinge
that the expert phytician is eepectily
needed. needed. No amount of written or verbal
deseription of a case, even by one phyalcian to another, Justiles the phyalcian
in treating without a personal examinain treating without a personal oxamina-1
tion. A description by a non-medical person is still worse. H. W. Hirli.

## ANNOUNOEMENT.

The staft of the Institute of Public Health are eveilible for engeget iont to sive public - health lectures to clube. ing travelling expenses.
Moths and the Best Means of Eradicating Them. (A paper given at a meeting of the tute, by Mrs. J. A. Dowawell. $]$
There are two kinds of mothe which There are two kinde of mothe whice
have proved themselves onnome of cth
housewife, -the clothes moth ind the have proved themselves ennomtes of the
housewife-the clothes moth and ite bufalo moth.
In May, the clothes moth begipe to about our rooms. It is a mmall, light on close inspection. Ite highest mietho seems to be to teach ur to eet our at fections only upon incorruptible trease
ures, which "moth and rute" cannot do
troy, But it in machen res, which moth and rust" cannot at it it necesary to kepp a
sharp lookout for the mafety of our fur harp lookout for the mafoty of our furse
and fannele. In the frat plece,
must carefully put can, upon which it will lay tis ogge. If we pack away our fura and Aapmele
early in May, before the moth hat ho gun to lay its egge, and leave thom moth cannot sequesero. in, no furthor pe
caution is neceseary. Clean papor be are recommended for this purpone-thot
used for Aour and meal hat used for aour and meal bage-or youce
purchase at the drug store bago mad lor that express purpose. They thoult
be without holes or opening enywhere be without holes or opening enywhere
These hage when alled and closed firmit Thene bage whon alled and closod Armit,
may be put away on clowet tholvon, in loose boxes, without danger to thotr contents so far as mothe are concernos strong odors to drive them away
When putting When putting away furs, boeit thome
will. II you deley putting them awwer till June, examien the furg them, awray
and beat them thoroughly in ordes the and beat them thoroughly in order that
any moth eggs that may poosibly the
been laid in them may be thorougity in been laid in them may be thoroughty
moved or killed. Woollen girmente must not hang in closets through the summer, in parts of the country, phere
moths abound. They should be packid
away in tight trunks or boxes, or sete a way in tight trunks or boxes, or sealed well shaken and carefully put away less they are in dally use. Early in Jung the larvio of the moth begin thetr places where mothe are not found, look sharp, or you will ind some precioues
thing that you have forgoten, already
more or lees riddled by the voracious
moths. It is their nature to eat until moths. It is their nature to eat until
they have grown strong enough to retire
from the eating business and go into the throm have grown strong enough to retire
chrysalis condition. Worse still then.
Worse still than the ravaging clothes
moth, is I believe, the buffalo moth, or moth, is I believe, the buffilo moth, or
buffalo Marpet beetle. This beetle is
originali a European insect, and is buffalo carpet beetle, This beetle is
originitha European insect, and is
found feall parts of Europe. It is not found 在 all parts of Europe., It is not
really moth, but the larve, or grub,
of a very small beetle. The beetle itself feeds on the pollen of flowers, and may be found in eerly spring in tulips,
and on other blossoms. From these, it and on other blossoms. From these, it
flies into the open windows, and, drop-
ping down. on the floor, proceeds to the piearest carpet, or rug. or curtain, as the case may, be, and deposits its eggs.
From these hatch out the grubs familiarlatter word is applied to them, no doubt because the havoc they create is similiar
to that caused by the ordinary clothes moth. The name buffialo is derived from buffalo. This is based upon the insect,
being broader toward the head, and covered with hairs.
The beetlee are extremely smail in comperison with the size of the girubs, and
are really very pretty objects, being marked down the middle of the back
with a broad line of red, and mottled With a broad line of red, and mottled
with gray and white. As they appear
eariy in the season, it is advisable to put wire screens in the windows as soo lsept the weather permaits of Cheir being kept open. Once they have gotten in a
house, it. is a matter of constant vigi-
lance to keep them under control, but b lance to keep them under control, but by
destroying all specimens that may be destroying all specimens that may be
found, and from time to time overhaulRound, and from time to time overhau
ing fabrice that heve been stored away,
they may be prevented from becoming ing fabrice that have been stored away
they may be prevented from becoming

In Europe, the insect is not especially
noted as a household pest, and we are noted as a household pest, and we are
inclined to think that this is owing to It is a fort that carpets are little used habit is a bed one from other points of
view, and there is little doubt that if carpets were more generally discarded in our country, the buffalo moth would
cease to be the prominent household pest
that it is to - day There that it is to-day. There is no easy
way to keep it in check. When it has
once taken possession of ling but the most thorough and longcontinued measures will eradicate it. At
house-cleaning time, the rooms should be house-cleaning time, the rooms should be
attended to one at a time. The carpets should be taken up, thoroughly beaten,
sprayed out of doors with benzine, and sprayed out of doors with benzine, and
allowed to air for several hours. The rooms themselves should be thoroughly
swept and dusted, the floors washed with hot water, the cracks carsfully cleaned out and kerosene or benzine poured into boards. The extreme inflammability o benzine, and even of its vapor when confined, should be remembered, and fire
carefully guarded against. Before relaycarefully guarded against. $\begin{gathered}\text { Before relay- } \\ \text { ing the carpet, } \\ \text { tarred } \\ \text { roofing paper }\end{gathered}$ ng the carpet, tarred roofing paper
should be laid upon the floor, at least around the edges, and when the carpet is
relaid it is well to tack it down rather relaid it is well to tack it down rather
lightly, so that it can be occasionally lightly, so that it can be occasionally
lifted at the edges and examined for the
presence of the insect. Later in the season, if such an examination shows
the insect to have made its appearance are ind though somewhat laborious remedy, consists in laying a damp celoth carpet and ironing it with a hot iron. The steam thus generated will pass
through the carpet and kill the insects
Immediately beneath it Blankets,
Blankets, furs, or other articles, that
ave been stored away for the summer, into tight chests or drawers and treated with bi-sulphide of carbon. This is a
disagreeable smelling liquid. which should disagreeable smelling liquid, which should
be poured into a saucer on the top of e tightly closed up and left for forty eight hours. The fumes, being heavier than air, will penetrate everything con-
tained in the chest, and will kill all the grubs and moths, that are among the
contents. It is well to perform this operation in an outhouse, as the fumes
of the liquid are very infammable and of the liquid are very inflammable and
explosive, and therefore it should not
be used where there is any fire or light. be used where there is any fire or light
[Note.-Tight cedar chests are excel-INote-Tight cedar chests are excel-
lent for packing woollens in during the
summer. In with the articles may be
sprinkled moth-balls, to be bought a
any drug store, or a bottle of chloro any drug store, or a bottle of chloro-
form, uncorked, may be placed in the form, uncorked, may be placed in the
chest. of course. in this case, care
must be taken must be taken not to inhale the fumes
when the chest is opened. Windows should be opened in the room before the

LABOR-SAVING DEVICES (A paper given by Mrs. W. J. Nott, a
the MacLennan Branch of the Women Institute.]

## clinical thermometer. You man is a

 the good fortune to never need one, but it there are children in the home you child is a little feverish, but if you can take his or her temperature, respiration,and pulse, you will know if there is danger, and will take prompt measures Now, I am just going to tell you of
things i have found to be labor - savers and conveniences, so if I seem to be be
egotistical I erave your pardon. As Brutus said, "I speak, but I do know," so I am just going to speak of what I
have proven to be good. The planning
of a kitchen looks to more than four bare walls, so I will start with it. The kitchen cabinets are good, yet, if
you are building a house, you can do
very much better than buy very much better than buy one of them,
or you can have a carpenter build what you have space for, chppaper auld what
than ontter than one of them. Perhaps some of
you know I built one for myself before i bawe. any of those nice ones you all heve. Yet, for me, mine fills my need.
much better than one of them could do.
If you will pardon me, If you will pardon me, I will give you some idea of the uses of mine, a zinc
covered table. I think the quality zinc used in some of the cabinets is not goad, but I have found mine quite satis
factory. It is so easily cleaned. wash dishes or bake easily cleaned. row of drawers. above the table which
hold nearly all the dry ingredients used
in baking and coliter in baking, and cooking, and cook-books.
Below the spice drawer are the separate Below the spice drawer are the separate
spaces for knives, forks, spoons, and shelves for dishes, so that as each dish takiped, it is put in its place without
taking one step to do so. sheng is so high I u us it for patterns.
Below the table, turee-fourths of width is used for drawers; the top one holds 125 lbs of flour, and a hole in the table
makes it convenient to get at same. Bemakes
low are two more drawers, one divided in three sections, the other in five,oe as
the depth of table makes the drawers so the depth of table makes the drawers so
large. I used to have to go upstairs arge. I used to have to go upstairs
if I wanted a patch of any kind, so I have a section for patches, another for darning
repair,
materials, stockings that need
another
for repair, another for any other
article in the same need, as so often we
cannot repair articles just as we iron them, and do not want to have them lying around till we can. Then there good large napery apace. I used to
have to keep tablecloths, doilies, and napkins, in the bedroom dresser, as I
had no satisfactory place for a sideboard, so have none; now they are near
the table. Two more spaces I use for children's dresses and working aprons. The rest of space under table I used
when I made it for a kettle-closet, but I have since turned it into a breadmaking cabinet. I I have lined it with
builders' asbestos to make it firepros. builders' asbestos to make it fireprooof,
and have three shelves in it. I used two old stove grates for two. I used a very small lamp. The oil-holder I made out of a tin box, as I could not
get a small lamp, and had an old burner and glass. This aits on the floor. It
takes a very small blaze, even in the winter, to keep it at right heat. In the
a dairy thermometer in the dough. I have a bread-mixer. 1 like it. Even
my little four-year-old girl can mis
bread with it bread with it. If I see that the ther-
mometer is at 80 degrees, and do not
neglect my bread, I know I am making
the best bread that the the best bread that the flour will make make bread. Lois Evans, a girl eleven

A cabinet of this kind for bread can side of cabinet a packing-box. On one cooking and baking utensils and lids. tank above, which holds five barrels of water, enough soft water to do us all
winter. I use it for many househol winer. I use it for many household
uses. A double shelf reaches from cabi-
net to pantry door, on which,' in sum-
mer, I put the blueflame coalloth mer, I put the blue-flame coal-oil stove
I proferred a "blue flame," as it is con sidereerred a "blue flame," as it is conchildren. Who might meddle with the gasoline. This is one of the comforts
for hot weather, and we find it very aseful to keep our potatoes from freez
ing in the cellar in winter. It is not an expensive luxury, and it does not consume much oil to do considerable
cooking.
I also use a steamer to cook one digh
above another, as the oil stove generate heat enough to cook several. II always cook my porridge at night. In summer
start it on the blueflame stove, then pack away in the fireless till breakfast. If I plan on boiled beef, I start it be-
fore I turn the blaze out, and put it in the fireless till dinner, and it is so much so than if it had been on the fire, and and spend your morning picking berries and come home and have the meal on the tetble in a few minutes. The stove
needs no polishing, and the oil makes
no litter. If we were building a new house, I my pantry. I I would have a dumb-
waiter in close proximity, and the din-ing-room so that the back of cabinet the table could $\cdot$ be set from that side. I would use a table with castors to take the cooked food from stove to dining-
room table. I like the oven thermome ter; I can often glance at it from an-
other room and know how the baking is progressing by it and the clock.
If you have a gasoline or blue-flame
stove, you can keep your kitchen quite comfortable, even on a hot day. I do
not like the idea of a summer-kitchen, as one can scarcely have conveniences everywhere. If you like it better, you can
have the convenience in a pantry. It not a workshop, and so it looks neater yet I think it makes more steps. The planning of our kitchen so as to save
steps is the most important part of the I got a refrigerator last summer. It Is fly-proof and cool, and is good even
without ice a large part of the time; yet, if you have an ice-house, as overy
farmer had in my part of Michigan, a zinc-lined box below the ice is fine. It wastes ice, yet, it saves the trouble of
digging it out, and whatever is put in
the box the box keeps nicely, so is less trouble
than a refrigerator. My sisters have their homes heated by furnaces, which certainly do away with
lots of dirt and dust. A coal stove comes next in cleanliness, but with our abundance of wood, and with our engine
and sawing outfit, I expect to burn wood Amones we are on a farm. Among the small things, I'll just men-
tion one, an extension strainer, esp-
cially good for straining cream. cially good for straining cream; just
stretch it across your churn and pour the cream through it

## is to take a stick or

 handle, if long enough, is goood, take two blocks and bore a hole in each 'the size screw each block to either wall of closet. Now put coat or suit on, and the edgeof each suit or coat or skirt is in sight of each suit or coat or skirt is in sight,
and you can put a lot of clothes in a small space. I made a lot of hangers
out of barrel hoops. If there is a baby in the house, as soon as it cannot be kept in the carriage, get
a large packing-box and pad it and put castors on it, and you have a happy
home for the baby, where he can develop and not be underioot, and does not need
watching all the time. Add a jumper Watching all the time. Add a jumper
for exercise, and you will have a happy
laby. Treated thus, learn to created thus, babies do notk first, and they

Now, for wash - day, use a washing fluid. Put the cloches, on to boill, take
out and put in washer and wash fow minutes, and wring out wash for rinsings, and your clothes will be ready to hang out. I have a vacuum washer and am not tired after doing a washing with it. A wringer is one thing I I can-
not do without. I have a simple and yet one of the best ironing-boards I have ever seen. Anyone can make one who has the material and time. Take four works as a lever, which tightens the ironing-board is allways ready to and oven if you only have to press one
article it saves time. Chave practised this for a good many a room, first cover the floor deeply with papers from to inch doep, then paste
over the top a covering of strong then lay down a layer of loose paper, When lifting the carpet, this layer will have, the dust on that has gone through
the carpet, so gether and burn. Carefully fold those towalking on a carpet, it will need more than one layer. By washing around the edge and laying down orte fresh layer,
the work is made very simple atter first year. The carpet-sweeper is a nice thing, and picks up the dust to a large extent in-
stead of throwing it in the air. But I
have always found I had to use a broom as well.
This spring I purchased a vacuum-
cleaner, cleaner. They are good, yet, for one
person, they come exponsive, and it is
not easy for one person to not easy for one person to work one.
If there are children in the home, they can use it, althrough mine are rather small yet to clean a carpet with
We got a galvanized beth-tub made to
order. The size is 4 feet long, 23 inches broad, and 15 inches high. It does not
require nearly as muich water tub. You can have a comportable bath with as little as two pails of water, and it is no trouble to carry it to any room folding screen, which is a neoessity where there is no bath-room, as in winter we
like to take our bath in a warm room,
or even beside the I find a small folding sewing table $\mathbf{M i t h}_{\text {y }}$ a halther made pine top so convenient A commode chair can be made from of holes and cut out, then Bore a circh to hold vessel, now replace back securely where there . It is very comfortable or in sickness.
In making a fireless cooker, the main took a large lard bucket, pasted paper in it, then packed it with paper for two
inches, then finished with inches, then finished with wool waste, utensils. I use granite pails with saucer lids. The only trouble there is with the
homemade ones is to homemade ones is to get a tight-itting. covered cooking vessel. II made a wool
cushion for top, and a oover to fasten down tight.
Perhaps you may say, "I cannot use have a workshop yoummer, but if you than you imagine. I did not know I needle, which any tools but scissors and I excelled in, till nearly eight to believe After our first boy went to be with Jesus, I was so lonely I could not setstairs where there is a worksthop, think ing I would see if some of the matchedlumber pieces would make a wood-box.
I started fitting them together till lound enough, then wanted husband to them together. He was too busy, so tried it myself, and found out I really $t$ and the decent job. Then I grained had been learning later. Husband said not know it, as my father was a cargot just when you want one.
Now, I would like to give you a bll expense of things mentioned. Th
men would not do without any piece o
wachinery they machinery they need to help them in their work, and why should we? If we
let them see we really need it, they will

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bought a cheap oven, but as they ar

I bought a cheap oven, but as they are heard the more expensive ar
II will not include the vacuum-cleaner.
Hope's Quiet Hour.

How Can Ye Believe? How can ye believe, which receive
honor one of another,. and seek not the

honor that cometh from God only ?| honor that com. |
| :--- |
| s. John $\mathrm{v} .:$ |
| 14. | We hear a good deal about the "dim-

culties of beliif?" and some to imagine that faith will come to them without any seeking on their part, faith
which is not desired sufficiently for of ort. Why should we lose our reason ing theology - the knowledge of God?
If a man wants to be a doctor he studies If a man wants to be a doctor he studies
medicine, if a lawyer, he studies law, if medicine, if a lawyer he studies law, if
a musician or an artist hé studies the
sience of acience of music or the latest theories
sibout art. If a woman wants to be a housekeeper-one worthy of the name-
she is always on the alert for a new recipe, always putting time, intellect, and
money, at the service oo her beloved
profession. She does not skip the "Ingle Nook" for the sake of reading
"Stock Gossip." In every business on "Stock Gossip." In every business on
earth-except religion-people expect to work and study along the lines they wish
h
m
to fo lament the loss of their childhood's to worldly pursuits as if they had nothing to learn about the Christian religion
 when the can ye believe?" says our Lord, ing with earnest enthusiasm is the honor that comes from men. Determined, long to success. "Ask, and it shall be given
tou; seek, and ye shall find," said One $\underset{\substack{\text { yon } \\ \text { Whe } \\ \text { the }}}{\substack{\text { and }}}$ earnestly desire it. The lukewarm whill
find that the faith which they do not
value is of very value is of very poor quality, and un-
able to stand in the day of severe testab. "The kingdom of heaven is gotten
ing.
by force, and they that thrust men take it by force.". (See margin of st. Matt.
it
xi.: 12.) We often see men pushing xi.: 12.) We oren ace crowd to reach
their way through a
some earthy goal. some
heavenly race with the same determined
purpose purpose to succeed
Those who if they seek Him with all their hearts. As a man learns the science
medicine by long-continued study of the medicine by long-continued study of ere of
science, so we learn more and more of
Gitudying about Him and seeking $\left\{\begin{array}{l}\text { God by studying about. St. Paul says: } \\ \text { to be much with Him. St } \\ \text {-Faith cometh by hearing, and hearing }\end{array}\right.$ Fr the word of God." If you seldom
by
study prayerfully the message God has study prayerfully the message God has
already sent to you, why should you be already sent you don't understand His
surprised if you thon can you believe, if you are
ways ? How can only vitally interested in worty
cerns?
How can you believe unless your heart
debasing is jealously guarded against debasing
thourbts and desires? "Blessed are the thoughts and desires? "Blessed are the
pure in heart tor they shall see God."
One sin intentionally cherished is enough
to dim the vision His His face perhap One sin intentionaly cherished
to dim the vision of His face, Perhaps
forgive, but are you honestly trying to
feel kindly towards the person who has
offended you? Do you pray for power
to forgive, remembering that "ir yo for-
give not men their trespasses, neither
will your Father forgive your tres-

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hearts told them that St. Paul was not
deceiving them. We are not children we must believe with the heart, and wit
the understanding the understanding also. Let us never
imagine that we know everything imagine that we know everything, and
can safely give up the study of God's
Word. Why Word. Why, if we were only studying ant, a bee, or a flower-we created-an life-time to the one subject realize that there was infinitely more to
learn. If there is no possibility or exhausting the subject of onse tiny bit of creation, there is certainly no possibility
of our gaining an absolutely perfect knowledge of God-which is eternal lifehere in this short earthly life.
Read the Gospels and behold
If four unlearned writers indentent Man matchless Person, each describing Him from a different point of view, and yet showing us the same Holy One of God,
then we must believe that then we must believe that the four
Evangelists were all marvellous geniuses and that they each wrote their story for no object, and made it absolutely proof against the most searching criticism. Head the Gospels, with an honest desire
to find out the truth of the record, say-if you dare-that the writers were oither deceivers or weak, deluded, creduIt is not fair nor honest to refuse beHer in Christ, unless we have learned to
know Him well. Christianity is not temple that can be understood or seen to real advantage by outsiders. The abernacle in the wilderness was the outwardly it was only a plain, wooden
erection, covered with leather curtains rection, covered with leather curtains.
Seen from within, it was ablaze with bold and rich embroidery. A certain king once said that he loved his tutor as much as his father, because if one had
given him life, the other has taught given him life, the' other had taught him
to live well. To whom can we go, if oe turn our backs on Christ? Can
wo anyone else hellp us to climb so near to
God? Can any other heal the $\begin{array}{lll}\text { God? } & \text { Can any other heal the awful } \\ \text { disease } & \text { of sin? } & \text { "This Man receiveth }\end{array}$ sinners, and eateth with them," was the taunt hurled at JESUS long ago. He st still ready to meet us in wonderful Friend of sinners. How much those miss who try to live their lives without Him! DORA FARNCOMB.

## The Ingle Nook.

[Rules for correspondence in this and other De-
partments: (1) Kindly write on one side of paper




Is the Child of To-day Un-der-trained and Undereducated.
Last time we talked on the question of to-day are being over-trained and over-educated. To-day, perhaps it may interest us to query as to whether the
opposite is true, - whether they opposite is true,-whether they are being
trained and educated enough. Will you mind if I throw th bility of judging upon you? Take at random any ten children of your acquaintance, not "picking and choosing,"
but taking them as they come. their manners perfect? Do the boys raise their hats to you when they meet
you on the road? Do they stand when you enter, as a visitor, the room where
they are ? Do they eat nicely, they chew audibly and open-mouthed,
shovel food in with their knives, or commit the thousand and one other offences
against civilized table behavior? Do they speak good English? Are they mentally quick and alert, say,
as "Rebecca of Sunnybrook Farm"? Do they seem to be able to think on their
own account ? cown account? Are they able to con-
centrate their attention on either or hand work, and keep it so for any length of time? Are they interested in
anything but play? anything but play? Do they like man-
ual labor , Do they like books? Have
thev as broud tion as you would expect in children of
their age? Finally. and most importont.


Winifred Stoner and Her Mother. (The little Pittsburg girl whose wonher mother's directiongely attributed they staunch Whimpering and dependent ? Do they
play tair ? $\begin{array}{ll}\text { play lair? } \\ \text { any kind? } & \text { Do they scorn meanness of } \\ \text { Are they }\end{array}$ they sincere and unaffected? Are they true as steel, ready to stand up for principle, yet open-ininded enough to
listen to the "other and give it the honor due to argument, they big enough to forget self, realizing that in the face of all that is to be ill behooves anyone to be conceited it self-centered?


Daphne Allen.
(The little, English girl whose drawings
made a sensation when exhibited in the
Dudley Gallery.)
I picture a paragon?-Why, yes, course. What is the use of setting a low ideal? "Not failure, but low aim, said, "Who aims a star, strikes who far than he who aims a trea"?-I have not the book at hand to verify the, quo but the sentiment is. By the time you have answered thes questions in regard to each of the ten children, I think you will agree with me just a little more trainingand-well, usually receives;-and yet the questions one who asked do not require that the be in the least a proditatiactorily .....

Io is a bit of a pity that more people the word "education." "ull meaning of little to think that the home has very do with education, that its is to feed and clothe and house him Religious instruction is left for the sum-school-teacher. It is never for one portant part refected that the most im received right in the hoducation is heir character of the parents, orm conversation, their general conduct, ation of the boy that he will ever relead) menns a leading out or develop-


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The best are none too good for you. When you consider that the application of a few hundred pounds of use it, and use will produce marvellous results, you will use it, and use Homestead grades that contain the high-
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to genius-although Dr. Sidis disputes the
question, declaring training rather than genius to be the serret of his son's re
markable advancement markable advancement. The point is
this : Surely when such amazing results his: Surely when such amazing results

have been accomplished in $a$ few in| $\begin{array}{l}\text { stances, very considerable results may } \\ \text { also be accomplished, by following out }\end{array}$ |
| :--- | also be accomplished, by following out

rational courses of development, with every child of of average development, Wint deed, Mr. Bruce, after long study of the
matter, has concluded that sany normal matter, has concluded that "any normal
child can be wonderfully developed." hither and thither hy says, "are drawn ests. They have a real interest in in noth-
ing: they dirise ing; they diriuse their energies; they con-
centrate their attention Centrate their attention soarcely at all.
In this they are encouraged by their
parents parents, who, owing to the prevalence of a Palse pedagogical doctrine, are of the
opinion that sustained intellectual effort opinion that sustained intellectual effort
must inevitably be harefful to the mind of a dild grows up more or less scatterbrained, with habits of superficial think-
ing, and, worst of all, without the ing, and, worst of all, without the abil-
ity to utilize in any markedly effective degree itils subconscious in ank memories andective
dand $\underset{\substack{\text { powers. } \\ \text { He }}}{ }$ He would, then, from the beginning,
surround the child by an gestive and interesting. spiring and interesting pictures shoukd be a leature of the environment that meets lhe baby eyes, books should be constant-
ly in evidenco-lor it is well known that the child who is turned loose into a good and the conversation and direct educastimulate his thinking, fire his imagina tion, and give him a thirst for knowing more FOR THE SAKE OF KNOWING mentally and physically, to be active, as happy and just as healthy it those activities are largely engaged in some thing that will count, work that, because.
of tiss interest to him, is play. Well, all this is not very constructive,
is it does not anser the question, "But what shall we do ?" All that may be solved in good time, if we set ourselves to it. The main thing is to realize, with the "Plain
Country Woman" who writes (Philedelphia) Ladios writes so well in
Home. Journal,
that . The that ""he great universal afliction of
the human race is lack of brains." That fact grasped, the next one presents itself -that this thing need not and should
not be. And then the next is is in not be, And then the next is in sight :
Begin with the children, and early, -not
merely
mot merely to cram them with krowledge,
which is, after and oducation of it alle, -but really to kind of of
them, to make then the very best and them, to make them the very best and
fittest of which they are capable. (To be continued.)

## I have accomplished, or perpetrated, or achieved a dress $I-\mathrm{a}$ whole

 not sure which, as yet, or or thas notbeen seen by any of my triends, and so
len have not encountered any gushings of
admiration or "damnings by faint praise"

## In the meantime I am strutting, men-

 tally. For, "sure," this is the frst bad or good, I a m proridiousi, paroud oo,it. It is significant, however, that I say
 say in school, gown "is when" you are
in society and are wearing a creation
that makes the men love and ane hate you (please allow for exaggeration);
"dresss" denotes a mut "dresss" denotes a much humber "expres-
sion of mind." So now, having preared
vout I may say that my ahievem made of cotton crepe, that it cost just
mate cents a yard, and that the
25 cent 25 conts a yard. and that the whole
thing amounted to just 82 in hard cash,
and about 812 glory be it is cotton crepe, and will not are to be ironed.
I have learned a few things in the operation, too.
having fed this $\begin{gathered}\text { Talk } \\ \text { age }\end{gathered} \underset{\text { about adventure }}{\text { I warrant you }}$ that every novice who undertakes to
make a whole dress for the first time,
 (Ive ben dreaming pink, living pink,
smothered in pink, for three weeks!) pre-
sented was too wide, -overwhellmingly too wide;
wideed
ind mover ront indeed I never realized, until it was
hatited up and fitted on, the real gen-


The plague of it is that now the skirt
is fust a milte too narrow, and all
sitithed
 an consoling mysolf that willow - watd
figures and hobble effects are otill the height of grandeur. Thin quit nonsense, I did hit upon one thing-necoesity is the mother of invention, you khow,-that worked out well, how hard it is to even-up $a$ skirit around the bottom when you have to fit yourrself. Well, you may have heard, as have
I. of chalking the ehder turning around the edge of a table and on, of course), then measuring down kirt you may have been caught, as was I. without a speck of chalk on hand. 'Well, I just got up against the corner of a the upper edge of the table, then I turned around, little by little, and so stucred in a whole row of pins. Then I took the
skirt off, measured the total length one that $I$ measured the total length of
took the measurement from the edge of the bottum up to one of the pins, then with a tape-line meas-
ured the same disto ured the same distance down from each affixing a second row of pins, preparatory to basting. As a result, my gkirt is quite even around the bottom. You see
the principle is that any inequen the principle is that any inequalities in
one's size will come above the table, where the pins are in the akkirt. Trusting, that this may be of use to someone as verdant in regard to sewing
as mysell.-Cordially youra
epsom salts mace mash
Dear Junia, - I have a recipe for the
'fiece wash", made of Epsom \&alts asked Ior by "Amy,", of Wentworth _Co., and other readers give it for the beneft of than talcum on account of its not being visible when on. Face wash.-One-quarter ounce Florida ine, $\frac{1}{}$ lb. Epsom salts, 1 ounce glycer Put all together and shake well, wuth saits are pretly well dissolved. Pour
littl little in palm of hand, enough to go over wind face well, then step outside where th with both hands-from forehead downuntil the skin feels soft and velvety, the Notice the improvement. C. H. M.
N. [Very many thanks,

freckle lotion
Dear Junia, -I saw in acerent issue
that "Amy" found a succosful remeds for removing freckles. I wish she would
oblige by publishing issue, as I pum troubled with them.
it am a constant reader of your Nooks, and in its columns have found valuablo in-
formation. Thanking you in advance for
Then


We find dat the following methods were "Amy", masquerade If not, we shall be obliged to her is she will tell us if one of the methods given to-day is the one that helped her, or, it
not, what that one preciely was. every night lemon juice, after washing, when out in the sunshine.
(2) Lotion
1 ounce, boiling Grated horseradish root, drachms. Apply every night after wash-
ing with ted

Seasonable Recipes.
Cereal Pudding.-Mix together 1 cup cooked cereal of any kind, $\ddagger$ cup mo2 beaten eggs, t teaspoon powdered cin-ding-dish, and bake for 40 bintered pudrather slow oven. Bread-and-Butter Pudding.-Place a layer of stale bread, rolled fine, in the
bottom of a pudding-dish then of any of a puind of truit. f -dish, then a layer
Sprinkle of any kind of fruit. Sprinkle on a lit-
tie sugar, then another layer of bread crumbs and of fruit, and so on until the
dish is full, the tor layer bein Make a custard as for pies toing crumbs. of milk, and mix. Pour it over the top
the pudding.


JUNL 12. 1913
C.--en plums, stewed and stoned, in a
pudding dish, and sprinkle with + cur
 vith 2 cups milk and cook together until
mike and mooth. Remove trom the from
 nenten yolks of ${ }^{3}$ egge. Pour this cream
ther the plums, and bake for 10 minutes over the plums, and bake for 10 minutes
in a moderate oven, then cover the top with a meringue made by beating the
whitee of the egga with a tablespoons
 and errve with cream. A. Ay kind
otowed or canned truit may be used. age favored gelatine in 1 pint boiling water, and pour hall of it into a bow or mould. Arrange fruit of any kind
raw or stewed and drained, in the gelaraw or ortewed and drained, in the eile
tine, and ast in a ocold place.
When
in Arm enough, pour in more gelatine (kept
warm) and more truit; 1et get firm, then pour on the rest of the gelatine, when
stifl, unmold, garnish. with fruit, and sirve with whipped cream, slightly
sweetened, and fiavored with vanilla. Pineapple Puding,-Rub together untiver
enooth 2 tahleapoons butter smoth
fourt then add to to 1 pint scalling milk,
ond
cook until thick. Add the beaten yolks of 3 eggs and 3 tablespoons sugar, atir for 2 minutes, then remove and cool. Add the fuice of 1 small can pineapple,
or a cupful of finelystredded fresh pineappole, and fo'd in the stiffly - whipped
whites of the 3 eggs. Bgike slowly for about 85 minutes.
Orange Sponge.-Blend 6 tablespoons
cornstarch in 3 cups milk, put into a double boiler, and cook. Add 1 tableapoon butter, 4 tablespoons sugar, and
the beaten yolks of 2 eggs, and boil for 8 minutes, stirring all the time. Stir
in the juice and grated rind of 2 oranges, and let the mixture cool a little. Beat up the whites of the froth and fold in lightly through the frm, serve with whipped cream. Maple Mould.-Blend 4 tablespoons cornstarch with cup milk, and add to 2 then add \& cup maple syrup and remove from the fire. Add 1 , egg, well-beaten, and a little vanilla or rose extract. Mix well, and pour -into a mould. When firm,
serve with cream, slightly sweetened and Maple Pudding.-Heat 2 cups milk, stir in 2 tablespoons fine tapioca, cook for 20 minutes, and remove from the fire. Add
the well-beaten yolks of 3 eggs and the well-beaten yolks of 3 eggs and a
pinch of salt. Stir again over the fire pill it thickens, then let get cold. Add 1 cup chopped nutmeats (these may be omitted), and $\frac{2}{\text { and }}$ cup maple syrup. Pile
the stiffly-beaten whites of the eggs on top, and serve.

The Scrap Bag When the top only, of a cake is to be
trosted, you can provent the frosting trom running down the sides by fastening a strip of greased paper around the cake.
It should oxtend above the cake at least hale an in
hardens.
to clea clean a suttcase. To ciean a matting suitcase, frrst bruss
it free from dust, then scrub it with

mild sut mild suds made of rainwater and pure | horax. $\begin{array}{c}\text { Do not } \\ \text { yellow the straw. }\end{array}$ |
| :---: |

dry-Cleaning white serge. Unless quite badly soiled, a white o
croam serge suit may be nicely cleane cream serge suit may be nicely cleane
as follows:
Place the coat and skirt, one at a time, in a vessel, and cover
with fine cornmeal or flour. Add cup
A. cup powdered borax, then wash the articles
in the meal as though it were water
iw the When clean, shake and brush thorough
out of doors. It may be necessary to
on repeat the operation two or three times
If the suit is very dirty; send it to
to save embroidery.
To prevent handsome embroidery under
skirt frills from wearing out at the bot ton, stitch whitecotton tape all arour
extinguishing gasoline flames
 water. Milike forms an emulsion wite
the gasolline, whereas water only spreads the gasoline, whereas water only sprea
"Its Delicious Drawing Qualities" Are manlfosted In millilons of Teapote dally SALADA"

## THE TEA OF STERLING WORTH

BLAOK, MIXED or GREEN-Sealod Paokets Omiy
"GOES LIIE SIXTT" TRACTOR


WASHING COLORED EMBrotdery. It is always perplexing to know what do with white articles embrotidered in ion is likely to turn yellow; if put in the sunshine, the embroidery is almost sure to fade. The following plan ha been found uaetul: Atter washing the
article, dry it in the shade. Next put it in an old pillow-ase which has been
dipped in thoroughly dried. Hang the ease, with the article inside
for several daya.
to make a button-hole in lace To make a strong button-hole in lace,
baste a strip of lawn firmly under the lace, then eut the button-hole and work
as usual. When the away the lawn close to the stitches with inne, sharp scissors, and you will have the value of pineapple juice. During the last lew years we have been
learning of the medicinal effects of fruit learning of the medicicinal effects of truil juces, particularly as alas thiges
No truit has more value for this purpoe than the pineapple, and many experimenti Yu thy juices prove it, says the Now fruit laid on a piece of beetstoak will, in surprisingly short time, cause sottening: swelling and partial digestion of the moat for a considerable doptit from the surk
tace. It is atated thet bromoline, the Tace, It is stated that brom, has been
active principle of the pinapple, the
wese in the proparation of the wollused in the proparation
known Masquera bee jelly.

## WALL Botariow obitituling

Made with tough, fire-resisting, everlasting AsphaltMastic will give you a drier, warmer house, at lower cost, in a month less time, than if you used lath and plaster.

Bishopric Wall Board is made by im-
 in sheets of hor Asphat-Masici.
Saves Time-Bishopric Wall Baard comes in sheetst x4 feet ready to go on. It goes on guick far
quicker than lath and plaster. It poes on dry-uwo don't
 You can get into the new bouse at teast a month sooner if you use Bishopric Wall Board.
Saves Money-The first cost of Bishopric Wall Board is considerably lesess than that of lath and plaster.a. There it ino expense for reparis, for neither
dampness, vibration, settingo of founditions, nor anyll
 Moreover, there ise s substantal
Warmer than lath and plaster. The Asphalt Mastic in which the laths are imbedded is absolutely air

Dryer-This Asphalt-Mastic is is also moisurue-proof your house is ined witu bstop it torableard unheal will never be troubled with nlat aced houses.
A Flat and Rigid Wall-Bishopric Wall Board is the only board made with laths. Laths are pooitively necesary to back up wail board to make
 away from the jointa.
Easily Decorated-Bishopric Wall Board is surfaced with heavy sized cardboard, yhich takes oill
 $\substack{\text { sorface for Wall Paper } \\ \text { sudd to } \\ \text { ats attractiveness }}$
Fire-resisting-The Asphalt-Mastic in which the laths are imbedded is toughened by a patented process, and will not burn. Buildings have been saved becasse
this Wall Board. Rat and Vermin Proof-The peats find it impossible to graw or bore through the tough, Bishopric Sheathing is made of precisely bishopre materials as Bishoprlc, Wall Board, but the
finished surface is not so smooth. It costs only one
quarter as much to apply as lumber and building paper,
and makes a better wall. Applied with the faths out, it binds cement or stucco as nothing else can. When weather boards are applied over it, the dead air space

Write for Illustrated Booklet which explains fully the advantages of Bishopric Wall apply it and how it looks when put on the wall and ceilings.
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building a Model House. We will also send sample of building a Model House. We will also send sample of
Bishopric Wall Board and Bishopric Booklet. Write to-day.
Dealers-Our proposition for representatives in noccupied territory is decidedly interesting. Write us.
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 This is the inauguration of Grand Trunk Lake and Rail Route Service between Eastern and
Western Canad. Caid Train will run the reverse way- from Srrnia Wharf to Toronto, commencing June
8th, and each Tuesday, Friday and Sunday thereafter 8th, and each Tuesday. Friday and Sunday thereafter. Fruil particulars, Reservations on Steamers or Trains, may be obtained on application
Grand Trunk Agents, or write C. E. HORNING, D.P.A.

SPRING CHICKENS-BROILERS
We are open for shipments of Live Spring Chickens and Broilers; and will pay highest market price according to quality. Write for quotations.
 348-350 West Dorchester St. - Montreal, Que

## Please Mention this Paper.

The roputation of the pinaapile has Surferd beacause it has been eaten in too | largo quantitios at at time and the |
| :--- |
| abroos part hase been swallowed with the |

 ot the juice, one quadrant of a sllee hall
 must
ripe
The te preserved trut thit has practioally no digestive power
Another use other than digestive is in
cases of diphtheria, for the cases of diphtheria, for the juice has a
strong solvent action upon plastic exudation, such as the diphtheria membrane, When it is applied to it on a swab or
spray, its time of contact is not enough spray, its time of contact is not enough
to cause solution, but it is of material service in softening the sticky and stringy exuclation so as to admit of its easy de tachment. It also softens horny epider-
mis in the same way as, though more mis in the same way as, though more
slowly than, salicylic acid. If a thin slice be kept in close contact with a corn for eight hours, it will be softened so as to be readily removed.-Selected.
Mrs. Newbride came hurriedly into her husband's study one morning.
or then, dear," she said, "this recipe and stir constaystly sit on a hot stove "Well, Alice," replied the doting husband, "if you do sit on a hot stove I think you will find that you will stir
constantly.,
"The Farmer's Advocate" Fashions.
HOW TO ORDER PATTERNS.
Order by number, giving age or measurement as required, and allowing at
least ten days to receive pattern state issue in which design appeared.
Also
Price ten cents PER PATTERN. If two numbers appear for the one suit, one for
coat, the other for skirt, twenty cents coat, the other for skirt, twenty cents
must be sent. Address Fashion Depart ment, "'The Farmer's Advocate and Home Magazine," London, Ont. Be sure to
sign your name when ordering 8ign your name when or
Maay forget to do this,



7333 Plain Blouse or Say Mantors 34 to 42 bust. ${ }^{7515} 52$ Five Gored Skirt,

${ }_{7596} 34$ to 40 bust.


Design by May Manton. 7621 Combination Corset Cover and Four Gored Petticoat for Misses and
Small Women, 14, I6 and 18 years.

deghen by may manton. 7584 Child's Box Plaited Dress, 2 to 6 years.

Too soon
A certain company promoter once built
castle on a mountain pealk. As he showed the gray, medieval-looking pile
to a friend, he said : 'I don't know what to call it, What name do you advise ?"
"It looks like those Scotch castles in
the Highlands," said the friend. "Why the Highlands," said the friend. "Why
not call it Dunrobin?", "Dunrobin? Dunrobin? Yes, that
would be a good name," said the milwould be a good name," said the mil-
lionaire; "only, you see." I have no in-
lention of retiring yet."

## "Monarchs" Cost You Less for Power <br>   <br> Send postal for our free "red circle" folder.

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THE FROST \& WOOD COMPANY, LIMITED, Smith's Pails Montreal, Que., and St. John, N. B.

To Hog Raisers News of the Week.
To the hog raiser looking for a profitable food forhis
hogs we say use Harab hogs we say use Harab anteed analysis shows $60 \%$ protein, $8 \%$ fat and $6 \%$ fibre. Of these protein is the most important. The protein develops muscle and lean meat on your hogs, and provides heat

HARAB Digestive Tankage H. R. H., Prince Albert , Frederick George, second son of the king, hea beep Cravelling quietly through Canade during the past fortnight.
"The Grange," the liome of the lete Goldwin Smith, bequeathed by him to the city of Toronto, was opened on June sth, as the nucleus of an Art Gatlery for Ontario. An extension will be bullt facing on St. Patriek street.

A monument in minemory of the men
dilled at the battle of Stony Oreek, whes unveiled on Jtane 6th.
is successfully used by a large number of the large hog raisers and experimental farms in Canada. Hogs given this food seldom suffer from the diseases common to hogs,
the Tankage fortifying the the Tankage fortifying the system. Write for our including feeding tables. THE HARRIS ABATTOIR

TORONTO


MAIL CONTRACT
SEALED TENDERS ADDRESSED TO the Postmaster-General, will be recolved
at Ottawa until noon, on Friday, the 11th July, 1918, for the conveyance of His Majesty's Mails on a proposed con tract for four years, three times pe woek each way Appin (Appin and Inadale) No. 1, from Appin (Appin and Inadale),
Ont., from the Postmaster - General' pleasure.
Printed notices containing further information as to conditions of proposec
contract may be seen, and blank forms con Tender may be obtained, at the Post offices of Appin, Inadale, and Glen Willow, and at the office
Inspector at

ANDERSON,
Superintendent.
Superintendent.
Post Office Department
Mail Service Branch,
$\overline{\text { Alexandra Hospital, Montreal - For }}$ eases. Applicants for Nurses' Training School.
Probationers of the age of 1 of to 25
of
 Western Hospitala, and the Toronto General Hoe-
pital, Toronto, by which our nuree



Parliament at Ottawa was prorogued
on June 6th, after a mension of 197 dayn.
Leaders of both parties in the Dominion Parliament have declared that immedite war must be waged on the white-larib
traffe. Ten thousand dollara is to be appropriated as a beginning, to cope with the evil.

BRITISH AND FOREIGN.
Winston Churchill, First Lord of the Admitralty of Graat Britein, steted on
June 5th that, owing to the rejection of June 5th that owing to the rejection of
the Naval Bill by the Canadian Senate, the construction of three warships provill be begun in, England at once, instend
of waiting until March next as was in: of walt
tended.

At the race for the Derby at Epaom, fragette, Miss E. Davidson, rushed out and attempted to stop King Gleorge\%
horse. She was injured so that mbe has died since. The joekey that rode the
horse was thrown, and was also injured severely.

Four women in England, who have ission, on ground of their refused perend the preliminary examination to onthem, Miss Bebbb, daughter of the Principal of St. David's Colloge, Lem-
peter, took first-class honore in inv at St. Hugh's Colloge, Oxford. Logal at tion against the Law Society will be

Nurses' Training School
We often receive questions from girls ospitals. Will those who are interested hospitals. the advertisement of the Alox-
kindly see
andra Hospital, Montreal, elsowhere in kindly see the
andra Hosp
this issue.

## Trade Topics

OF INTEREST TO HOUSEKERPERS.
It will pay our readers to got samples
of the Baldwirl Four-in-One houes - dress


Mending Basket.


IHE FARMER'S ADVOCATE:
a great sale of jerseys.
The fight for "Motes for Women" is on
to stay and I for one will say: "God
speod the day when women will havo speed the day when women will have
say in the Governments of the world say in the Governments of the worla,
not the theasue. of voting. but to
redress some wrongs from which womanredress kome wrongs from which woman-
kind has always suffered; to suppress
hes lind has always sufiereg; to suppress
such terrible wils as the growing white-
slave trade and to secure for our wome slave trade, and to secure for our women
an equal tooting by the side of man.
It may be that in It may be that in ages to come, the
names of Mrs. Pankhurst and the rest will stand out as si
devotion and heroism.

- mother:

Aditor Mending "Patche"
attor Mending Basket
shiow me to contribute a patch. I moral.
the puding was good, as he passed his
thate plate lor a second helping. A young
guest gave me such a surprised look that
友 Wondered at it. After dienner she said,
"Mr. Miller, didn't it seem strange to
Hear Mr Mr Mr
 pudding was good." "Whell, what is
queer about that ? Wasnt the puding
all right ?" "Yes, queer about that? Wasn't the puddings
all right $?^{\prime \prime}$ "Yes, but an home, pa and
the boy would have said it wasn't fit to eat. They never praise anything." And I remembered that whil an guest at
that home everyone seemed to gnasl the others.
Another time the threshing machine
came a day before it was expected came a, day before it was expected.
Farmers
wives know what that means when no help is to be found, and perhaps two or three other machines are in the neighborhood. However, by caro-
fully planning my "menu," I mana fully planning my "menu," I managed to
preparen nairly, good meal, which the
men seemed to enioy. In the anternoon men seemed to enjoy. In the afternoon
while I I was washing dishes and wondering how $I$ could ever get supper, John
eame in and told me that $I$ had
thiven ane in and told me that I had given
them one of the most satisfactory din-


One day John came to the house quite
perplexed about some important busines perplexed about some important business
"Never mind," I said, "you always fall on your feet.". He went out without
paying any attention In a few hours he came home from towi and called out cheerily. "I fell on my
teet, Jennie.," Some time arter 1 overheard a neigh-
bor saying that he bor saying that he would be dreadfully
worried were he in John's worried were he in John's place, "Yes,"
said John, "but Jennie says $I$ nlway said Jhn, "ent Jennie says I always
fall on my feet, and he did.
Now, in my crude way, I have tried to show how a few drops of the oil of of
praise and commendation lubricate the
 inn,", but a feew honest words do help so.
This patch is big enough por a breadth


## Gossip.



At Linden Grove Farm, Coopersburg Peonsylvania, on May 20'th, T. S. Cooper seys number $\$ 8,840$, an average of $\$ 450$, a the lot. 2,050 , the highest price obtained wa igh's Beauty, taken by Lynnwood arms, the runner-up being R. J. Flem ing. Toronto, Ont., who secured the four
eear-old cow, Noble's Grey Mabel, 5550, and the five-year-old, La Fontaine's Campanile, at $\$ 950$. The cow Oxford' Hillside Pansy sold for $\$ 1,800$, to Elmen-
dor! Farm, Lexington, Ky., and eight ort Farm, Lexington, Ky., and eight
ther females averaged $\$ 1,034$. Bull were not in much demand, and $\$ 500$ and $\$ 510$ being the highest prices reached

## bath and west show

 The annual Bath and West of Englan Live-stock Show of 1913, was held aTruro the last week in Truro the last week in May.
$\begin{aligned} & \text { horns made an axcellent show. } \\ & \text { classes were provided for } \\ & \text { che }\end{aligned}$
Two classes were provided for pedigree Dairy
SKorthorns. In the older class, C. R W. Adeane led with a red cow of superio W. Adeane led with a red cow of superio
character, which gave $30 \frac{1}{3}$ lbs. of mill the ring. which gave $30 \frac{1}{1}$ lhs. of med
tre trail class, $R$ Stratton was first champion with Mischief, a big, evenly-fleshed bull of fin Luality. Lord Fitzharding won in the
wo-year-old class with Aldsworth Pride bull of much substance, with quarters, and a level top. Lord Fitzrarding also scored in the yearling clas,
with Brave Marquis. W. J. Hoskin's roan two-year-old heifer, Cornish Maid was first in her class and female champion of the breed. smaller than usual. The leading aged bull was Sir George Cooper's Bandolier of Hursley, by Black for Ever, brought out in fine form, and afterwards awarded
the male championship. The cup for the the male championship. The cup for the
best bull in the show, any breed, went to G. Butters, for his Hereford bull,
Sailor King. The cup Sailor King. The cup for the best cow,
any breed, went to the Devon cow any breed, went to the Devon cow, Tor
ridge Belle, shown by L. H. Ashford, typical specimen of the breed.
 the English County spring shows, which was held in Bicester the third week in
May this year, was in keeping with the reputation of the event. Shorthorns were a fairly good display. Four of the
nine aged bulls competing were white nine aged bulls competing were white,
and the first prize was awarded Miller's massive roan, Man o' War, carrying a good covering of flesh. Sar, Sarry place was taken by C. E. Gunther's
Windmill Marquis. from the same herd, was third. In two Frost was given Richard flCooper's Hoar
First place, and Earl
Manver's Royal Sover Manver's Royal Sovereign was second.
The Edgecote Shorthorn Company won The Edgecote Shorthorn Company wo
first and second for yearling bulls, wit
Edgecote Masterpiece and Edgecote Con queror, and C. E. Gunther's Tongswoo
Juryman was third. In the aged cow class, F. Miller's A
gusta 125th was placed first, after struggle with W. M. Scott's Gay Mai
First in three yenrold First in three-year-olds was R. Cornelius'
Bankfields Belle, by Village Reau, second Bankfields Belle, by Village Beau, second
W. M. Cazalet's Clipper Keepsake, and
C. W. Col C. E. Gunther's Olive Leat and Tongs-
wood Edith third and reserve. R Balston's Bess of Bilsington, led in the
two-year-old class, W. T. Garne were second with, Romp's Gift, \& \& Sond thir
went to T. E. Watson's Reatrice 4th In the yearling heifer class, Cazalet's
Cypsy Countess 3rd, a Phinvask-h
white power white, purchased at, Perth sale in Fe
ruary, was a taken wy F. A Bood Wilkinson's. second bein
and third by Messrs. Garne's Mist the Dairy Shorthrs. Garne's entry. I cox \& Sn's had a good winner. in Fly
Marwenna 2nd, described as a silky, me tow-skinned cow of nice form and qual
ity. In the ring she gave 32 lbs. o
milk. prize for Rabraham Countess Clara, a
hig-framed red, with a nicely-hunc udder and a milk certificate of 33 -h lhs udder
prizewinning three-year-old heifers hat certificates of $22 \frac{1}{3}, 23$ and $25 \frac{1}{2}$ lbs., re
spectively. The male championship was
awarded to Man o' War, and the female


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Welland.


Cream Wanted


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At an auction sale of Aberdeen-Angus
cattle at Holbrook, Iowa, May 27th.

Rallinera.

FOR FARMERS AND GARDENERS The Latest Improved Specialties Huery Parmer and Carrener, should ase



## П

UREKA Wagon Box. Rack e $\xrightarrow[3]{4}$
Without wingsand ladders it is an excellent
 hostantly adjusted to five different working
 material used in construction isof the very best
Befngmad from sound hardwod and tough
manleable iron castings. Buy one which meets selng made from sime
malifeabec iron casti
very requirement.
"EUREKA" GARDEN SEEDER Will handile the most delicate Seed without
 of without the Cultivator Attachments.
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The only Sanitary Churn made. Rarrel of
fneest stoneware top of clear pressed glass,
tery asy tooperate. Three sizes, No. 1,2 and 3 . "EURERA" ROOT CUTTERS ilis shred or slice from one to two bushel per minute. Tapering cylinder with ten care-
fant tempered steel knives. Strong and mrable. WRITE FOR CATALOGUE
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Questions and Answers. Miscellaneous.

Girl Leaving Home.

1. Can a girl who makes nearly all
her own living, be compelled to stay
home tuntil she 2. Can she leave 2. Can she leave home against her
parents' wishes before she is 18 ? 3. Is a girl her own mistress at 18 ?
2. Can she be marriel 4. Can she be married when she is 18
against her parents' wishes ?
ESSEX COUNTY SUBSCRIBER

## ans. -1 . Yes. 2. Not legally

```
#. S. General
```

Municipality Flooding Farm. 1. Can the township turn water of
oad on a man's farm, and leave it five road on a man's farm, and leave it five
rods from the road to lie and-soak away and damage his crop ?
2. What steps should be taken to have 2. What steps sho
the water run off?

## 3. Can he collect damages if the water


Ans.-1. Not legally.
2. He should make complaint in writ and -warn them at the same time tha unless the matter is attended to prompt
ly and suitably. legal proceedinge will ly and suitably,
be taken.
3. We think

## Gossip.

Clydesdales for Canada were shipped from Glasgow May 17th, by Robert Ness,
Howick, Que.; Jas. Hay, Lachute, Que. G. G. Stewart, Howick, Que.; Arthur C
Hardy, Brockville, Ont., and A. Scara Hardy, Brockville, Ont., and
Cummings Bridge, Ottawa.
The death is announced of Lord Rothshild's famous Shire stallion, Blythwood
Kingmaker. He was foaled in 1899 bred by Lord Blyth, was sired by Blyth
wood Conqueror, dam Blythwood Gueld vood Conqueror, dam Blythwoorld.
Rose, a daughter of Prince Harold. Rose, a daughter of Prince Harold. At
Lord Rothechild's Tring Park sale this year, five of his progeny averaged $\$ 2,495$
Among the more noted of his sons was Among the more noted of his sons wa Blackthorn Kingmaker, boug
Arthur Nicholson, for $\$ 8,750$.
J. E. Arnold reports having sold to
Edward Maxwell, Montreal, for Maxwelton Stock Farm, Ste. Ann de Bellevue the following Percheron mares: Hazel having beautiful foals at foot), and the stallion Koquesis, imported from France, and winner of first place at Montrea Horse Show. Mo. W. Fauchl, Saut bler, and to James Beers, of Beersville N. B., the filly Winnette.
the "principle" involved. Sir William Meredith, Chief Justice Ontario, ath Mr. Y.
mutual fathers-in-law-the lawyer's daughter having welded the son of the knight. During a rather tedious argument on
case which Sir William was hearing a case which Sir William was haring,
Mr. Hellmuth was proceeding to elaborate on a certain point of law which he
thought had an important bearing on the issue.
But the Chief Justice thought otherwise. He was impatien. then he leaned back with an air of bore-
dom, and interrupted with :-"Mr. Helldom, and interrupted with:- Mr. Hell
muth, it seems to me that this is not relevant. What reason is there why 1
should be compelled to listen to this?"' Hellmuth's mouth had just a sus-
Mr. he answered: "Reason, my Lord-why he answered.
$\$ 8,000$ per year." Parcels posf presents some problems to
the postman. A usually jolly individual the postman. A usually jory his daily
wore a worried expression on hat reported a very
round recently, and reser round recently, and reported a caused
tough time. His trouble was all cause
through having to deliver a piece of
liver and a hungry bull dog in the same
mail. Dog and liver came very nearly
being delivered as one parcel, or with
brapper of the liver. mail. Dog and liver came very near with
being delivered as one parcel. or wor
the doz us wrapper of the liver


This Engine Runs on Coal Oil

 The otrongont and timpleet farm engine made; gnty thre
 wthout erperience. Thoumande of methefed cuntomets nee these enparatore, and do donens of other jobe. Chenper the h hermes or (Hred men. Fill up the traboand marit rumaine and so further attentlon io neccemary; it will rim till you top it
PREE TRIAL POR 20 DAYs. You don't have to thke our word for te. well end an
 anty to sut it to you and weil pay to get it back If you dont want f .
Aboolutoly stantantoed for 10 years. Write for froe cutaloz and oplatione of mitro
3 20 15 horaeporver


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when they saw it at the big fairs last autumn, Here was an engine that started without cranking-that was so perfectly
balanced it did not need to be anchored down-that had a balanced it did not need to be anchored down-that had a governor of the faybail steam engine type that nad a remark-
ably simple carbureter-that had no pipes, fitings, cooling
pumps or fans to freeze or get out of order. Was it any wonder pumps or fans to free
that people talked ?

It will set you talking, too, when you see it. You'll want one right away. That seems to be the case with everyone, judg
ing by the way our sales are increasing by leaps and bounde

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Miss Mayflower $=103244=$

Great Dispersion Sale of imported and home-bred registered SHORTHORNS

Wednesday, June 25th, 1913
at spring grove farm, ilderton, ontario T. This offering of thirty head comprises the entire Spring Grove herd of Springhurst herdo of Harry Smith, Exeter, Ont. Two very hibh-clas bulls. including the e ered header, rare contained in the sale, wll the rest being females of the hifhest order. Five cows have calves at foot by Im. Commodore
and the remainder of those Victoria bull, Victorlan. Some of the noted families reeresesteded are:

 when fitited, will be heard trom at our large exxibibitions. Some of the cows are heavy milkers.
for cash. Tonthins credit will be given, and six per cent. per annum allowed for cash. Trains will be met at Inderton the morning of the sale, which
will begin at 1.30 p...m. Catalagues on application to
T. E. ROBSON, Manager, London, Ont.


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Judge a Separator by light, quiet running. That is always your faiher or grandfather Did the EMPIRE? You can safely tick to family experiencesafely follow father's and grandfather's example-and buy an
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are called Sta-Rite because they do stay right-which is a very important point. AGENTS WANTED $\begin{gathered}\text { for our machines in unoccu- } \\ \text { pied territory, A sencies are }\end{gathered}$


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And Save Labor Expense. THE IMPROVED TTLAUFER POWER will save you 815 to 820 a
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will tell you

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e., TORONTO, ONT


Questions and Answers Miscellaneous.
Line-Fencing. I am sending a chart of change
ownership of land and chart explains lay of land and. The ownership of fences. Can B compel
to to build half of line, G having half o
side-- line of 100 acres length ? was no agreement at any time The fences. The lines are as they have bee
for years. for years.
Ontario.
Ans.-You can obtain suitable relief i the premises by taking proceedings under
The Line Fences Act, Revised Statutes of Ontario, 1897, Chap. 284, as amend ed by Statutes of 1908, Chap. 63; an
it seems that the disposed of definitely and can hardy b disposed
otherwise.

Unsatisfactory Drainage.
some years ago, before I bought the
farm, the people living on this farm and
adjoining for adjoining farms, for the length of a
block, signed an agreement to block, signed an agreement to give their
neighbor above me the outlet for water, which was not the natural water-
course, but merely took his water to oblige him. The ditch was dug, to each
man digging across his own farm. man digging across his own farm. I
have been here six years, and in that
 farm, and the ditch filled in, the water
cutting a new channel my
the cutting a new channel for itself across
the center of field, and flooding down
the same the same run on my neighbor. My
neighbor's ditch is in another run about
 nro his place, and he refuses, on the
yrounds that his agreement
it it where he now has his ditch. This is
not in the petition. 1. Can I compel him to give me an
outlet where the water ion


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 Better PricesThese are the two big reasons why you should use Windsor Dairy Salt.
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Tell us how many cows you milk, and we will give you estimates on what it will cost you thes Ask for booklet describing B. L. K. Milkers. Address
D. DERBYSHIRE \& CO., Brockville, Ontario Or G. A. GILLESPIE, Peterborough, Ont.
a few unrepresented districts.

Questions and Answers. Veterinary.

 $\Delta$ getos. Speody end Postive Cure for






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Well meet importers at any port in France or



Notice to Importers C. CHABOUDEZ \& SON 205 rue La Fayette, PARIS, FRANCE. M you mat to buy Percheran Horree and
 Clydesdales, Standard-brede, and Shortbout to bead. Headed by the great stock buil Trout Creek Wender. Teeb bulis for ole form 6 to (twonhs olid all

Wilh you tell $m \mathrm{~m}$ what is the matter about twice the usual size, just around the top of the hoof. After it had been
like this a week it burst, and it dise lhargis a week it burst, and it dis
char
hee matter between the the
 Ans.-This is probably foul in feet, or it
may have been due in the first place to
hnury. See article on .. Sore Feet to nuiry. See article on "Sore Feet in
Cattle." in our issue of May 29th, page
o88. 988. Heifer Coughs. I have a heifer coming three in the
tall, which freshened nearly two months
 draced peumonia. She recovered fairl
quickly, eats well, and seems all right
excent except Ror a persistent cough. She had
a slight cough quite a while belore she a slight cough quite a while before she
took pneumonia.

1. Would the diease 1. Would the disease be likely to leave
this cough, or do you think there is danger or tuberculosis?
2. Would this attack render her wore
lieble to another next winter 3. If this cough is not tubercular, is her milk fit to use?
3. Is there anything that will help her 4. Is there anything that will help her
to get rid of it it it seems much better
when she is out-diors.
P. M. M . Ans - . . There is a possibility that the disease from which she suffered is re
sponsible for the cough but sponsible for the cough, but would make
sure by having her tested tor tubercu-

## sose 2. lit might. <br> 12. It might. 3. It should be.

 good pasture, the warm weather should
bring a cessation af the cough, if it is is bring a cessation af the cough.
simply a sequel to pheumonia.
george washington.
The incumbent of an old church in in
Wales asked a party of American tourWales asked a party of American tour-
isto to visit his parochial school. After ists to viat his parochial school. After
a.recitation, he invited them to question
the scholars, and ane of the perty ace the scholars, and one of the party ac-
cepted the invitation. "Little boy," said he to a rosy-faced
lad. can you tell me who Georye Washington was?
 wase a "Merican general.".
"Quite right. And can you tell me
what



## Lumps on Legs.

Foal is now tour weeks old. When
born, there was a slight raise or lump on the inside of each fore leg. The lumps are hard, and look like splints
They are hard, about an inch long an half the thickness of a lead pencil. Are
they splints ? they splints? Ans.-Splints are a diseased condition
of the bone, and are not congenitel hence these are not splints, as they were prosent at birth. From the symptoms
given, we are of the opinion that the apparent growth are apimion the splint
bones that are probably title
 not to intertere with them, and it is probable that in a few months thinge
will appear normal. If these really will appear normal. If these really are
congenital abnormalities of the lege, treatment will do no good.

## Miscellaneous.

DOMINION EXHIBITION

Brandon, Manitoba
July 15th to 25th, 1913
\$50,000 Prize List
\$20,000 in Speed Events reduced rates on all railroads
FARMERS! - MANUFACTURERS!
me have the most liberal premium list offered in Cenada. Re-
fund of $50 \%$ of freight on live
stock stock and poultry without restric-
tion as to where else exhibits are tion as
Transfer track delivers all live
stock right to Exhibition Barns. -A premium won at Brandon Prize List. . Entries close July 1st. Your opportunity is here. Free space for outside exhibits and special building for manufacturers.
automobiles and motor trucks.

See that you have the spice. We'll have the crowds.

Fair and courteous treatment
assured to all exhibitors. - 3 J

EVERYBODY :

 SOME OF THP ATTRACTIONS portrayed in been, ", atupe




travkllers' day. monday, july z1at.
the exhibition that dobs canada credit
P. PAYNE, Pres. W. I. SMALE, Sec. and Manager


CLYDESDALES OF CANADA'S STANDARD
 G. A. BRODIE, NEWMARKET P.O.


 E. WATSON, Manager, Hudson Heights, Oue CLYDESDALES, PONIES, BULLS ${ }_{2}^{2}$ Imported 3 year otd Clyde fiviee
 ${ }^{38}$ miles Eastor (Blargowrie Parm) JOHN MILLER, Jr. Ashburn.


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Afew chiof young stallions always on hand and for sale. Frequent importations
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UR Stallion Poiicies, covering against loss by Death through
Accident or Disease, are more liberal and Accident or Disease, are more liberal and afford more protection to owners than any issued by
Competing Company. They contain no vexatiove clauses, having been drafted to cover the special condilions met with in this Country. They cover the horse no matter where he might be and not merely in his own stable, as certain
Companies do. This is very important during

STALLION INSURANCE

as the horse might die while being on the road. The insurance premiuthers, insure with us; The insurance premium represents only a small proportion of the service fees earned. Better purchase price the premium than the purchase price of your beast if it die
Better have a
Better have and not need than need and not have.

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Over ten million families find Tanglefoot the greatest aid. Every season 300,000,000 sheet
Tanglefoot go forth to fight flies. Think of the tremendous power for comfort and health this mighty army yields.

The First Fly Calls For Tanglefoot Don't let the first fly escape. For
one fly killed now may stop countone fly killed now may stop count
less armies later. less armies later
Put a sheet of Tanglefoot wher ever you see a fly. Every sheet you
use now will save you untold an
noyance later
Poisons Are Risky Every summer fatalities are re-
ported from their use. In several ported the sale of poison is forbidde
statest by registered pharmacists The poison does not kill the germ The poison does not kill the germ
on the fly. Poisoned flies drop into your food, into baby's milk, are ground to dust in the carpet.
Fly traps, too, are unsanitary and
disgusting to care for.
Wade Only by THE O. \& W. THUM CO., Grand Rapids, Wiecho
A litule gasoline will quickly remove Tanglefoot from clothes or furniture.

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One high class imported 13 -months bull calf: one junior yearling show bull; ene promising 11 -months bull calf; one 14 -months farmer's bu
MITCHELL BROS., Burlington, Ont. Farm $\frac{1}{2}$ mile from Burlington Junction SHORTHORNS AND GLYDESDALES
 .11 imported mares- 4 with foals by their side, 5 three-year-olds, and 2 two-year
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HAVE FOUR YOUNG BULLS FOR, SALE $\begin{gathered}\text { ANDMORE } \\ \text { COMINGON }\end{gathered}$

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STOUFFVILLE, ONT. 5 Shorthorn Bulls 5 -We have for este at moderate pricen 5 Scorect Also a number of high-class heifers and hefier calves. COLUMBUS, ONT.
(1) 1 I , Records show that cattle bought from the Salem -Records show that cattle the past season; we have others. Several young bulls are priced reasonably. ELORA, G.T.R. and C.P.R

heifer, were all sired by bulls of my breeding. I have now for sale ty young herd
headers of this champion-producing breeding. HARRY SMITH, HAY P. ONO ONT
Exeter Station. Long-distance Telephone.
5 YOUNG BULLSS
$\cdots$ TWO GOOD STRONG BULLS
TWO GOOD STRONG BULLS
IEST RESULTS ARE OBTAIMED FROM ADVOCATE ADVERTISEMEMTS.

Questions and Anewers. Miscellaneous.

Lump Jaw Please let me know the remedy required for the cure of lump jew (not
loose in the skin), but on the bone of the jaw. S. B. Ans.-When the bone is affected and enlarged, you cannot remove the lump, but
you can arrest the disease with iodideyou can arrest the disease with iodide-
of-potassium treatment as frequently ad-or-potassium treatment as frequently ad-
vised in these columns. Give it three times daily in dram doses, gradually increasing the dose by about ten grains, until the appetite and desire for water
fail, tears run from the eyes, and water from the mouth. When any of these
symptoms appear, cease giving the drug symptoms appear, cease giving the drug.
Repeat in six weeks if necessary. The dose prescribed is for a full-grown animal of medium size.

Obstruction in Teats. Had a valuable Ayrshire heiter, calved about three weeks ago. Her udder was
very much caked but very much caked, but she milked fairly
easy. As the caking disappeared, little easy. As the caking disappearea,
lumps came in three of her teats, and
now she milks hard in the thre now she milks hard in the three teats, giving a very small stream, making it
almost impossible to milk her. Give almost impossible to milk her. Giv.
cause of trouble, and suggest treatment. Would putting calves on her help the
trouble? trouble ?
Ans.-II the milk is stringy, give her a purgative of $1 \frac{1}{3}$ liss. Epsom salts, ant
follow up with a
teaspoonful of salt petre in a pint of water as a drench daily, or in her feed for a weak. Bathe
the udder twice daily with hos water the udder twice daily with hot water
and vinegar, and rub it afterwards with and vinegar, and rub it arterwards wir
goose grease and spirits of turpentine. Do this in case any trace of garget still
remains. It is more than likely the remains. It is more than likely the
lumps will continue to grow in the teats lumps will continue to grow in the teats
and may in time obstruct them completely. They are likely a sequel to
garget in this case. A teat siphon garget in this case. A teat siphon
might relieve the trouble somewhat, but might relieve the trouble somewhat, but
it is not likely that a cure would be affected unless you got your veterinarian affected anm an operation, which is not
to perform an the cow this
always successful. Milk the cow always successful. Milk the cow this
summer, and if the teats show any worse summer, and if the teats show any wored
toward the end of the milking period, and she is not particularly valuable as a breeder, prepare her for the butcher's block. Letting the calf suck might help.
It is worth a trial, but we are doubtful whether any good resulte would follow. A Bad Weed.
Enclosed find a species of weed found growing in field. Give name of same, and state whether it is a bad weed, or Ans. The weed enc
Ans.- The weed enclosed is penny cress,
more commonly called stinkweed. It has been introduced from Europe, and is now lound in every arovince in and winter
minion. It is an annual, and annual, having white flowers, and seeds are borne in flat pods. It is a very bad weed on the prairie. Hand-pulling and hurning is probait has just gained a foothold in small quantities. Of course, where the weed it widespread, this is not practicable, and some method of geting
the seeds to germinate, and afterwards working the land to kill the young plants, must be resorted to. Cultivate the land thoroughly each time a fresh
growth of weeds develops. growth of weols
must be exerclied not to plow down any full-sized pods, even though they may be green, as in a dry climate such seed will ripen beneath the weed on land to a heavy groflollowed, mow it down and
be summer-fal rake the weed up and burn it. Harrow-
ing the growing crop will kill the seedlings of this weed, but must be done early, when the crop is just coming
trough, and again when it has reached the height of three inches, and in badly
affected fields, again, when the crop is affected hes high. It is also good prac
five inches high. tice where this weed is troublesome t
cultivate, disk, or plow lightly, the stubble immediately after harvest. This,
starts the seeds. The following spring, starts the seeds. The following spring,
disk harrow or cultivate these plants down, and plow and harrow at once.
This land may be sown late to green


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 Sold ot a pice withia meech of everyone. and the FORK -when ueed with this earrier cuts down tane and lebour in henelling hay. You
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 in your towa to dhow you.
end for our Now Catalogue Uf pou are building a now bavm
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## SHORTHORNS!

 II. Gargill \& Son, Gargill, Ont. Oakland-50 Shorthorns Preeent offering: Red Baron 81845 -, He lo

 Spris Villoy Sharthoras A fee of the beat young bull arospects we ever
 Eyle bikos. - RR. No.1, Drumbo, Oat. Woodholme Shorthorns

 SHORTHORN Rylles and diller
 Eaid Shorthorns and Swine ${ }^{-\mathrm{Ham}}$



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backed and ones. Also Tamworths of all ages. R. O. MORROW \& SON, Hilton P. P. O., Ont
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0.23 lbe.; also choice bull anneet Topsy Clothilde, G. W. CLEMONS, R.R. No. 2. Por Sale - Jeroey. cows and heifers and bult lerd-book atoclk Fror furtation. All pedigree and Berd-book stock. For further particulars apply to
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Gorey, Jersey, Europe

THE FARMER'S ADVOCATE
FOUNDED 1866
Questions and Answers Miecellaneous. alfalfa field. Is it a species of in my Ans.-The specimen arrived in rather species of alfalfa. it is clearly not a a weed quite common is likely rocket, of European alfalfa.

Pasture for Calves
chard, I would like to ground in the orsuitable for calf pasture that something ready for use in a few months. As I A a constant reader of "The Farmer's dvocate," kindly let me know the kind
of seed, when to sow, and how thick sow ?
Ans.-At this date, probably you could not do better than sow oats, or a mixture of oats and peas. Prol. Zavitz's
annual pasture mixture would also be good, and the clover would come on in
the fall. Sow 51 lbss. the fall. Sow 51 lbs . of oats, $30 \mathrm{lbs}{ }^{-}$
of Early Amber sugar cane, and 7 lbs. of Early Amber sugar cane, and 7 lbs.
of red clover per acre.
It
comes last, and
six weeks.

Protection from Lightning. on my barn, $3 \frac{1}{3}$ feet in height. How
would for would it do to put a copper wire along
top of ventilators, and down each of barn into damp ground? Would it do to put wire through steel fasteners
on top of ventilator, or should they be made of copper? Would this make a st lightning? Ans.-Almost any kind of metallic con-
nection between a furnishes a measure of protection earth, lightning. We would, protection fro
mend mend having wire laid along the ridge suggest. Would also than the plan yon
calvanized-iron a cable copper wire as conductor. In propor tion to cost, iron is a more efficient and
safer lightning conductor than copper. sater lightning conductor than copper.
Fasteners should be of the sgmee metal
as the rod itself.

Trouble with Rented Farm lease of three years. In the said lease,
it is stated that I am paying lo 10 cows, and that all stock is rent for
us tol
is ton as eaken. The rent I am paying is high. The owner told me that all cow
would freshen would freshen very early. The all cow
stalment in-
st the rent comes. due septemsion of the farm, when I came in posses
as stated, but 6 cows and find 100 cow and now I have four cooss and two of the
heiters, and will start the factory next
week with this bring me a small milk which will. only
iord died the first day we tand by his widow (when I said managed.
 my time is up?
A FABMER WHO WIDTS Ans-There seems to have been m
tated time mentioned in the lease Which the cows were to freshen. Are and the heifers with call, and due the
drop calves this summer " If so. they
could be called cows withould


 elves without trouble. If ween your-
ays the same calthe must the
anse as taken over. if course. it must bee
ived up to.


It isn't an easy job holding them back from

## Caldwell's.eisalf Meal

---it's the MODERN way ---the ECONOMICAL way
---the PROFITABLE way
of vealing up or raising calves for beef or to replenish your Dairy Herd and you can raise as fine calves with it as you can on whole milk. But-
Keep on selling the milk. Caldwell's Cream Substitute contains the same nutriment and costs far less. Ask your Feedman about it or write us.
THE CALDWELL FEED CO., LTD., DUNDAS, ONT. ${ }^{39}$

## LAKEVIEW HOLSTEINS



 AVONDALE Herd bulls: Prince Hengerveld Pietie 8230 (50582). Sire, Pietje 22nd STOCK FARM $\begin{aligned} & \text { ported cow, and one of the greatest youngs sires of the herd, having } \\ & \text { ready sired a a } \\ & \text { 35 }\end{aligned}$

 A. C. HARDY, Owner H. LORNE LOGAN, Mgr., Brockville, Ont.

## Service Bulls and Bull Calves from A. R.O. Dams,



maple avenue stock farm, L. E. Connell, Prop

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REMEMBER Potiac Kornayk Do you want a sire to use that has such transmitting ability? If so seepreund Pontiac Korndyke, or Rag Apple Korndyke 8th, the strongest bred Korndyke bull E. H. DOLLAR, Heuvelton, N. Y.

Near Prescott. Ont.
SUMMER HILL HERD OF
Holstein Cattle and Yorkshire Pigs


Holsteins $\begin{gathered}\text { One six yy year old cow due this month allo fine } \\ 2 \text { and } 3 \text {.y. }\end{gathered}$

BRAMPTON JERSEYS heveral imported cows and bulls for sale. B. H. Bull \& Son, Brampton, Ont
hanada's Greatest Jersey Herd. Herd. EEST RESULTS ARE OBTAIMED FROM ADVOCATE ADVERTISEMEWTS.


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> A Necessity for the Dairy Farmer
> NATIONAL PIPE AND FOUNDRY CO'Y., LIMITED
> 211 McGill Street, Montreal, Quebe

Fertilizers $\begin{gathered}\text { For information regrading all lind of mized } \\ \text { and unimed fertilizers of of the thigheet arade }\end{gathered}$ write. The William Davies Company, Limited

The Wiliam Davies Company, WEST TORONTO


Questions and Answers. Miscelinacour.
Dehorning Cow in Mil.k her, or what a could be the best time to to do this work? SUBSCRIBER. Ans.-Temporarily, perhaps, to a slight
etent. hut many cows are dehorned in that condition, and if the work is done properly, the risk is very little.

Lice and Gapes.
Send to T. J. Cook, a subscriber to
your paper, a remedy for lice and gapes. your paper, a remedy for lice and gapes.
Ans. -1 . As you couple the mention of lice and gapes, we presume you have
reference to poultry lice for which reference to poultry ice, for which A. G.
Gilbert has recommended the following method of treatment. Corrosive subut mate, \& ouncess common salt,
Dissolve in two to four quarts water. When completely dissolved, dilute to 25 yallons. With this, carefully spray
every. crevice, nook and corner of the house. As the solution, is highly poi-
sonous, care must be exercised in hansonous, care must be exercised in wan-
dling it. . Follow by whitewashing the
premin ding it. PBefore returning the fowls to
premises. Be
the poultry house, see that they are free the poultry house, see that they are free
from vermin. Dust fresh insect powder about the heads, on the backs and
shanks, and under the wings. Repeat shanks,
this in ten days.
2 . 2. For gapes, separate the affected
birds from the well ones. Place them
in a room having a clean. dry floor, disin a room having a clean, dry floor, dis-
infected every few days with a five-percent. solution of crude carbolic acid.
Burn, or deeply bury the bodies of dead birds. wash with clean water. Remedia and wasn of the birds already affected
treatment or
is rather tedious. One quite commonly is rather tedious. One quite commonly
advised is to make a loop with a horse
avivintremen hair, introduce into the fowl's throat,
and withdraw in spiral form with the and witharaw in spirathe gape werms.
idea of pulling out the
Several applications are likely to be Several applications are likely to be
needed. others recommend dipping a needed. Others recommend dipping
feather in turpentine and inserting this,
which will cause the chickens to sneeze which win up the worms. A small por
and cough
tion of canphor in the drinking water tion of camphor iso recommended. Some poultry-keepers
also place the affecter birds in a compara-
tively tight box or barrel, cover the top tively tight box or barreose cotton, and
with chesecloth or loose cot
dust lime through. It is claimed that dust lime through the air which is
the chickens breathe the
filled with fine lime, and this causes dis filled with fine lime, and
lodgneat of the worms.
Black-Quarter--Sowing Buckwheat
A had a year-old heifer out on grass
and found her dead, from what cause know not. Some say it was black quar-
ter, and some say not. She had not ter, and some say not. She had no
marks or disfigurement whatever, with
the exception of a slight swelling of the the exception of a slight swelling of the
udder. We did not open udder for fear
of poison, but the dogs had torn her in udder. We did not open udder for hear
of poison, but the dogs had torn her in
other places, and the meat looked other places, and the meat looked as
natural as could be, and the blood also. natural as could be, and the blood also.

1. I would like to know what black
quarter is, its symptoms, and cause. Is it very contagious? Will it work on
anything over a year old, or does age anything over a year old, or does age
make any difference? Will the disease
stay on land? What preventive measures might be taken? Is vaccination
unt black where affected, or will the whole
carcass become black? carcass become black?
2. What is the best way to sow buck-
wheat, broadcast or drilled in every spout. or every other spout? L E. E. Ans.-1. From the meagre description
given, we are not prepared to say what given, we are not prepared to say what
ailed the heifer. Black quarter is caused by a micro-arganism, taken into the sys-
tem on grass or other food grown on
gre swelling of the limb or limmse affected,
soon followed by death. Prevention consoon followed by death. Prevention con-
sists in keeping young cattle off infected sists in keeping young cattle off infected
pasture, or inoculating with anti-blackleg pasture, or inoculating with anti-blackleg
serum, which, with instructions and the necessary instruments, may be obtained
from manufacturing chemists, or from the Department of Agriculture, Ottawa. It
is seldom an animal over two years of age is attacked. It is not contagious
The affected limbs show dark in color in post-morteme examination.
3. Buckwheat does well sown b,road

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creases the value of any kind of creases the value of any
feed, when mixed with it.

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colds, ett.
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weight and makes finear wool and and moll add For Hogs - Makes every bog a

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thate Beckeve Freding Molases will bene-
fit all of them. Name... . . . . . R.F.D


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 bitedat ing yorip plecertitht hini,

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Zenoleum, the great prometer of animal health now so largely used by stock everywhere. It is an excellent all external parasites, and mites, and moves stomach and intestinal worms from all enimele. It is one of the best preventives of hog cholera known. It is of a hog-cholera cure, but as not know disinfectant it is a good thing to use to keep down all sorts of contagion, as
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infectant Company, 812 Sandwich St., Windsor, Ontario, for a free copy of their sixty-four page Veterinary Adviser.

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$\qquad$
TWO DIMES-OR ONE?
Take a glass half-full of water and with a plate. With one hand on the glass, and the other holding the plate armly in place, turn the glass upside
down quickly so that
no water will escape. With the glass in this position, you will see what apparently are two
dimes-one at the bottom a little larger dimes-one at the bottom a little larger
than a dime really is, and another the than a dime really is, and anoth
actual size of a dime just above.


## Quettions and Answers.

 Mibcollaneous.My mare, when turned out to grass, is Loub quite a number of antacke summer she had quite a number on atack. She has
been troubled already this spring, and
而 only out three or four days. Is there anything I can feed her regularly to pre-
vent this. She has just folled. Ans. The at G. R. indigestion. Great care should be exercised when changing the feed of the
mare, especially when turning mares. especially when turning her on
grass.
At first, ${ }^{\text {allow her out only }}$ a short time, and gradually increase. The Ieeding of a tablespoonful of ginger every
night in the feed tends to ward might in the feed tends to ward ofr at-
tacks by keeping the digestive apparatue in tone. When she has an attack, give her 4 drams fluid extract of belladonna, and 1 ounces each of laudanum and sweet spirte of nitre, in a pint of cold
water as a drench. Never water as a drench. Never allow
drink too mueh very cold water.

> Commencing With Sheep.

build for forty sheable would I have to 2. What would be best, to build twoPly lumber with paper betwen, or single-
ply, with strips nailed on cracks ? ply, With strips nailed on cracks?
8. Would the latter way be warm
. onough for an Ontario winter ?
4. What way would be best to
4. What way would be best to build a flat roof or a square-pitch roof, so as
to have room tor feed on top to keep warm?
5. Would it be toc cold to leave the
door open all winter doot open all winter, so sheep can go go
in and out, as
I
don't intend to feed ${ }_{\text {more }}^{\text {in than once a day }}$ 6. Would it be a good plan to hang
some kind of a curtain in tha keep the draft out, ain in the door to pass under it? ${ }_{8}^{\text {sheep. }}$ 8. What is a good remedy to kill lice Ans,-1. For a flock of forty A. T. T. ewes, and providing also for the han-
ding
 of room, and in building, provide for a larger flock. Some sheep barns are built
to keep sheep on two floors, and these do not require to cover so much ground. 2. It is is not necessary to build an
elaborate pen elaborate pen. Good results may be ob-
tained from one thickness of lumber and tained from one
the cracks battened.
3. Yes. Sheep do not require a warm
pen. In Iact, they are better in a cool one, and warmth is required only a cool the lambing season, and if the lambs
come atrong come strong, and the shepherd is on
hand to see that they get nourishment. stand 4. The pitch roof, or a hip roos Would likely be best not from the
viewpoint of warmth alone, but also viewpoint of warmth alone, but also as
a place to store feed. a place to store feed.
5. Sheep do much 5o. Sheep do much better when the
door is left open to allow them tree access to an open yard. They will stay outside a good deal of the time. of
course, on very stormy days, if the is driving the snow in through the opening, the door should be closed. 6. This might be done to advantage
in some cases, but if the door is placed in some cases, but if the door is placed
on the sheltered side of the building, is on the shette
not necessary
of Racks should be set in the center
of the pen, soo that the sheep may feed
from each side. build an ordinary plank trough tran the the
bottom, and this can be utilized to grain, and the hayrack is simply a slatted
one the slats being tar enough apart to
ollow
 top, and still ophers diagoen at the the and
slightly wider at the bottom. The slightly wider at the botom. These
latter racks are usually hinged, and mus $\left\lvert\, \begin{aligned} & \text { be onened to put in teed, and are de } \\ & \text { vised ot keep oirt } \\ & \text { rattling ound hasseeds fron } \\ & \text { rant and into the wool of the }\end{aligned}\right.$ sheep. Baraning this oljection, the other
are good, and in general uss. (pyrethrum), and sitt it into the hair on
the back of the nanimals. Insect powders
ndvert sed . © this papor .

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from the Postmaster－General＇s ploasure Printed notices containing further in Contract may be seen，and blank forme of Tender may be obtained，at the Post
Omees of Rostock and Khuryville Ged Bill，Gad＇s Hill Station，and at the Londo

ANDERSON，
Superintendent．
Post Office Department，
Mail Service Branch，
tawa，May 14th， 1913 ．


MAIL CONTRACT SEALED TENDERS ADDRESSED TO at Ottawa until noon，on Friday，the His Majesty＇s Mails on a proposed tract for four years，three times per week， ach way，between Brinkman＇s Corners
and Tobermory，from the Ceneral＇s pleasure．
Printed notices containing further 1 n － Contract may be seen，and blank forms
Cond of Tender may be obtained，at the Post
offices of Tobermory，Brinkman ners，McVicar，and at the Ofince or the
Post－office Inspector ost－office Inspector at London．

Cost Offiee Department Suporintonden | Mail Sorvice Framch， |
| :--- |
| Ottewa． 13 ， |



MAIL CONTRACT SEALED TENDERS ADDRESSED TO t Ottawa until noon，on Friday，the
th July，1913，for the conveyance of Th July，1913，for the conveyance of
fis Majesty＇s Mails on a proposed con－ tract for four years，six times per week，
，ver Rural Mail Route from Mitchell Recial（North）Mail Route from Mitchell pecial（North）（South Perth），Ont．，from Printed notices containing further in－ ormation as to conditions of proposed
Ontract may be seent，and blank forms t Tender may be obtained，at at the Post
＇fice of Mitchell，and at the office of he Post－office Inspector at London． Wit © flice Department．
Mail Service Branch．


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ute agents wanted in all unoccupied terartory
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F MAIL CONTRACT SEALED TENDERS ADDRESSED TO
the Postmaster－General，will be received at Ottawa until noon，on Fridey，the
4th July，1913，for the conveyance of His Majesty＇s Mails on a proposed con－ tract for four years，six times per week， over Rural Mail Route No．1，from Embro （Brooksdale Way），
October next． Printed notices containing further in－ formation as to conditions of proposed of Tender may be obtained，at the Post Offlces of Embro，Youngsville，Brooks－ dale Inspector at London．G．c．ANDERSON Superintendent
Post Office Department，
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turn limit two montho．
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that these rich agricultural lands，ob－ tainable free，and at a nominal coet， are already producing grain and
vegetables second to none in the world？ For literature descriptive of thio reat territory，and for niormation 20. to terma，homestead ree

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The third benefit is that you ontrol your threshing. Suppose this machine does (which it will not) pass wheat out with the straw. You can instantly stop and fix it. And you can fix it right. With a threshing outfit at your place for a day, there is no stopping for such a loss. They whizz your barley and wheat and oats right through, as fast as they can feed it. The lost grain doubles the actual cost of threshing tolls.

The private machine we illustrate keeps your farm free from weeds. The township outfits distribute wild oats from a tenant farm five miles away to yours. You know what a "clean up" is on one of these community threshing outfits. Sieves are crammed with wild oats. Somebody takes a broom on them for about 4

of your neighbors. And that money was earned easier by them than by you.

You get a second benefit from this machine, bought from the Page Wire Fence Co. This benefit is that you can thresh when you like. Supposing you have a wheat yield in a rainy year. The wheat runs heavily to straw. Your neighbors are in the same fix. The one or two threshing outfits travelling your township on accou their machunes to the himit, on account of the heavy straw. This
fast threshing loses your wheat. This is a very big proportionate loss on your is a very big proportionate loss
on your profit. It is exactly the same as paying taxes on an acre or
two, plowing, harrowing, seedins, two, plowing, harrowing, seeding,
rolling, cutting on that acre-and then ihmoning it away. you.
seconds per sieve. A "clean up " is a jokc-but it is a costly joke for your farm. A $25 \%$ stand of weeds in your crop means working 100 acres and paying taxes on 100 acres and hauling crop off 100 acres to get returns on only 75 acres of actual harvest.

Get one of these private threshing outfits this year. It will have paid for itself in a year or two. You will e independent. You can really eradicate weeds from your farm, because new weeds will not be brought to your farm. Your farm crops may increase by as much as one-quarter, and your yearly cash profits will tend to increase by as much as onc-half by cutting out present wastes, hasty threshing, and

If you have a threshing outfit you can do nearly anything desirable. and thresh at any time, as you need straw or grain.

It is well known that when you sell your grain as "beef," you get nearly double price for your crop and retain fertilizer for your land as well.

For the "mixed" farmer, this threshing outfit from the Page Wire Fence Co., is always " on the job." You can divide your threshing over the winter months exactly as you need straw, for roughage or bedding. This straw will be dry, clean, and in perfect condition.
For the "grain" farmer, this outfit permits threshing at any time whatever, with the harvest field hands as operatives. This means either the high early market prices for new wheat or other advantages. You can realize on your crop without

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Write us a letter, telling the size of your farm, and whether you have a farm engine or a horse-power outfit. Tell us what you farm-whether you specialize in stock feeding or are a straight grain farmer.

We will tell you the size machine you need, what it will cost, how many hands are needed, what the threshing Will be in duration for your size of farm We will give you all information.

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Get in a position of independence as regards your harvesting. Adopt the custom of your farmer friends south of Lake Ontario. It has paid them, and will pay you, too


[^0]:    tog of the whole child, body, mind, and
    oul. It is in the home that his earliest soul. It is in the home that his earliest
    and most lasting impressions are
    areceived. It is there that his tendencies re created. It is there that his opinin short, to a great extent, the atmos phere of the home that will determine Whether he is to be a man of honor and
    usefulness or a conceited prig, a sneak, bully, or a gratter. occasionally, it is true, a fine man may emerge from very poor sort of home, or a poor sort
    ot man rome a fine home, but these are,
    ois it were "sports." We cannot acas it wers, "sports," We cannot ac
    count for sumb deviations,, heredity may have something to do with it, and, per-
    happ,
    atter - environment and and powerul apps, artor -environment and powerrat
    after - infuencee, -the tact remains that the home forms the great mass of poople. If, then, parents would turn out more
    than creditable famities, let them look
     worth-while man of your boy, a worth while woman of your girl.,-this is the the
    great, important thing.
    Mere pedantry loes not count, mere facuity for makim money does not count : honor, and gen
    erosity, and usefuluness, and broad-mind edness do, infinitely. So let the home do its great duty.
    Even in less important things-yet important enough- 1 it is to be feared that
    there is failure to give the home atmos There is failure to give the home in itsolf.
    phere that means training in the child without effort on the part ore the man
    In a home, for instance, where ners of the inmates are irreproachabie uers as easily and steadily as he adds to hers as easily.
    his stature.

    Now, to go a step further 1 don
    elieve that, as a rule, we give children Lelieve that. as a rule, we grasp and as-
    credit for being able to gras
    vimilate haif as much as they are "able
    for," in an intellectual way, and that
    without doing them an iota of harm, either mentally or physically. You may have heard that it is often wise to let children read books just a
    little in advance of them-by reaching little in advance of them-by reaching
    steadily upward they grow. You may power accredited in these days to "suggestion," suggestion by word and surroundings. As
    may have heard, moreover, of the almost may have reard, moreover, by keeping children constantly interested, - and just given in to-day's "Letter from Abroad," of the wonderful Montessori school in is watching.
    You may not have heard, however, that, by enlisting the services of these three genii in individual cases, some al-
    most incredible results have been attained with children of a very tender age, - results that make us willing to bo
    lieve Sir Oliver Lodge's lorecast that in the age to come the common men and the age
    women
    to-day.

    And now, are you curious? For some time of late, it appears, an investiga-
    tor into such subjects, Mr. H. Adington Bruce, author of "The Riddle of Personality," and other books, has been
    much interested in these very children much interested in these very chidaren
    referred to Last fall he wrote an ratricle which appeared, if I remember rightly, in "Good Housekeeping," under the heading, "Making the Most of Child-
    hood"; another along somewhat similar hood"; another along somewhat similar
    lines, by the same author. was published lines, by the same author, was pubished
    in "Mcllure's," and so we have our in-
    年 formation boiled down and ready to use.
    $\mathbf{I}$ am sorry, however, that we have not. space in which to do more than recapitu-
    late very briefly a

    $$
    \begin{aligned}
    & \text { not } \\
    & \text { itu- } \\
    & \text { ects }
    \end{aligned}
    $$in re

    Mr.
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    At
    and Bruce had under consideration. irst of all there was young william ho, at the sog of Dr. Boris sidis, ge, immediately amazing his intercuctoly his wonderful grasp of higher matheAlmost as interesting is the eccount of orbert Wiener, son of Professor Wilener, Tufts, who matriculated for Tufts Conege and graduated in his sixteenth ear--And that of Lina and Adolph delife College and Harverd University the enrly ages of fifteen and thirtcen cars.
    Anothe Bruce United States prodigy of whom wonderful little daughter of Dr. Stoner. of Pittsburg, to whose mother's infiuence and training much of this little girl's At five, Winifred wrote a play which she and other childien performed. At wix, ahp had learned Eaperanto. At seven, she brought out a book of poems on-
    titled "Jingles." and lasi yoar, at the age of "ten, "a sequel to it." She now
    speaks fluently, French, German, Spanisk and Italian. and is well grounded in geography and history, especially the
    history of English literature. "Withal;"' history of English literature. "Withal,
    as Mr. Bruce remarks, "she is no anæmic little old woman, her nose perpetually in books. On the contrary, she
    is one of the most human of children, is one of the most human of chlidren
    delighting in life outdoors.. . She can outstrip her boy friends' performing on the trapeze and running races...s. She is on a par with them in playing ball awimming, and friding horseback, bu
    also delights in playing doll with he little girl friends." Turning to England, Mr. Bruce finds
    Daphne Allen, now thirteen years of age,

    The talented grandaughter of Ruakin'0 publisher, George Allen. Thio lititlo ledy,
    over whose drawings exhibited, laot year over whose drawings exhibited, laet year
    at the Dudley Gallery, artintic Lonion at the Dudley Gallery, artistic Lonaons healthy child, like Winifired stoner, ut terly free from the alightoat suggestion.
    of self-consciouinebs and concolt. of self-consciouineise and concolt.
    "Chilaren or doctors and proiomora"' says someone, "Childrem of highy-edu. cated people"!-But Mr. Bruce promptly
    flouts the idea inplied by bring ing to the fore instances of chiliaren of comparaively uneducated poople who have attorifled
    the world; for instance, chorg Bidder, the world; for inatance, Coorge Bidder,
    the son of an Enghibh atone-mion who the son of an Enghish atonc-mason who
    at the age of ten accomplithod merrolat the age of tem accomplithod maryol-
    lous feats in menital arithnotic, and eventually became a greit onghoor; eloo "Mgightuning catculator," who coutd refee a number to the sixth powor in eleven seconds.
    "Prodigies I" again exclaims the doubt-
    ful one; but Mr. Bruce is "inclined to sul one; but Mr. Bruce is inclined to
    throw much of the creait upon influences and muggestions brought to boar upon and suggestions brought from dearlitent chilahood. Whore the parante have boen educated, these influences and sulgsoutiong by voluntary training. Where tho paront have been uneducated, thei precocloun city to early physical finfrmity, or other reason which provented the dilenipetion of childish energy upon play, and
    compelled the little ones to fall bell compelled the little ones to fall bee and interest. - The boy, through playing with pebbles, etc, , learns to calculato, to concentrate upon calculation, and so poo-
    sibly to develop into a "lightning calcusibly to develop into a "lightning calcu
    lator." of course, something muit be put down

