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Vol. XLVIII.

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Vol. XLVIII

## EDITORIAL.

Cold and backward weather "' has been the current lament, yet about one hundred days hence we expect to be surveying as usual some bumper crops of corn.

Our heart-felt gratitude hereby awaits some alert metereologist who will provide us with a certain indicator of what night to cover up the tender plants from killing frost.
"The Human Slaughter House," is the gruesome title of a sensational litthe book by a German school-master, which an American reviewer doscribes as a " photograph of hell inspired of heaven." It is said to be the most powerful and remarkable indictment of war ever written

Hon. W. T. White, Dominion Minister of Finance, during the course of a recent speech in paripinent declared that unproductive expend tures upon war and armaments had produced the world-wide high cost of living

As indicative of the drift of the dairy busines in some sections, it was reported by the instruc tor at the annnal meeting of an Eastern Ontario Cheese Board reeently, that while there were more factories than ten years ago, the make of cheese had iallen off fifty per cent. This was attribu ed chiefly to the shipment of cream to the cities

A variety of causes, fiscal and otherwise, have no doubt tended to the massing of the consuming populations in cities and towns, thus restricting the production of lood and clothing, but Ho Mr. White, the Finance Minister, of Canada, has given pointed expressions to a terrible fact-the but surely fastening armaments-that is slowly sciousness in a way that ought yet to find expression in relegating to the scrap heap of harbar ism all the " pomp and circumstance" of wa

Discussing the subject of weed protection, Saskatchewan farmer gives vent to his feelings !in this vein:-'" That expression 'Let the Govern ment can makes one weary. large corpora tions, but the farmer getśs his in newspaper talk If a railway company wants a law for its protection or benefit it gets it ; if a farmer wants a law for the same purpose he waits until be gets it, which is seldam, or after a very long Well, why ?

Alas, alas! Pretty soon all the romanc and quaintness and other distinguishing cha acteristics of farm life will have been abolished Judging by a news item from Indiana, the the sugar camp, the soap is to go the way tinard"." camp, the soap kettle, the apple "dry Threshing is thererve jars and the dairy compor of men who take their dinners with them, and go home for supper. Many a house wife will sigh with relief at the thought of it, but the prospect of eating a cold lunch, after a dirty forenoon's work, without even a cup of hot tea to cut the dust, will cause the farm hand to ch from a different sensation

The National Winter Exhibition. In the first 1913 issue of The Farmer's Ad vecate there appeared an article discussing the Stock Show in Canada. In that article the belief was expressed that there is ample room in Canada for such an exhibition, and if properly conducted and really national in scope, it should not detrimentally affect other shows already inaugurated
Since then there has been considerable agitation in various quarters regarding the project, At a banquet held in Toronto during the week of the Live-stock Association meetings early in February such prominent live-stock men as Johri Bright, Dominion Live-stock Commissioner, and Wm. Smith, M. P., of Columbus, Ont., expressed the opinion that the time was ripe for such an exhibition, and urged that steps be taken immedlately towards the end of launching, the greates Canadian live-stock show. Since that time semem developments have occurred. It will be last year's Ontario being satisfied with the an at Guelph, huld indignation meeting and decided to called an towards the formation and establishment stop National Dairy Show: The fire, so hastily kindled, smouldered for some time, blazing up area, and then it became spread over a larg meeting was called in Toronto the last week in April. This meeting composed almogt altogether O Ontario dairymen, decided in favor of tional Dairy Show. The day following this meeting another was held, this time at the instance of the Toronto City Council, who suddenly roused up and decided that Toronto was the only place to hold such an exhibition, and that Toronto Civic Officials were the most capable of conducting the alfairs of such a far-reaching a few stockmen and some oi the dairymen. It was decided by those present to hold a winter fair in Toronto, and they decided to call it "National." They proceeded to elect an executive and planned to hold their first exhibition in No vember next. A portion of the executive again met in Toronto (all Toronto residents but one on May 26th, and named the show the "Nation al Live-stock, Dairy and Horticultural Exhihi fon, - 00 long and cumbersome to be popula or efiective. meeting was car for the to brounds visited the The subjecl
The subject is receiving the deepest consideration by stockmen. At the annual meeting of the National Record Board, reported in our last is
sue. it was one of the three main topics of dis cussion The idea of a national exhibition was favored by all, and this resolution was adopted " This Board is unaminously of the opinion that the time has arrived for the holding of a truly nationai, agricultural show-live stock, seeds etc., and organized on broad national lines, and having a board, truly representative, covering every Dominion agricultural interest." A comterview the Dominion Minister of Agriculture. This is the situation. Toronto is sure the show is to be located there, and through local
ter fair. sinless such show has the support of practical stockmen and agriculturists over thite entire Dominion, and is controlled by theee mem in all its Ibranches, together with Government aid it cainnot be a successful National Agricultural Exhibition. If men, primiarily interested in things other than agriculture and its products, are placed in positions of authority in connection ion the various doparment of such au exhmi ton, it wil aver be a natona, agriculural not disparaging 'Toronto's claim to the locetion of such a show, it is premature for any city to decide within itself that it is the only beest plece to hold the exhibition. The matter of locating the show is one of the most important questione and should be left in the hands of the competent and should be left in the hands; of the competent interests. In short, everything should be in tholit hands and upon the advice also of the Dominion Minister of Agriculture, from the very genesis of the movement.
(Matters are now in a tangle. Tororto be ieves she has launched a national show. The ive-stock men have appointed a strong committee o wait on Mr. Burrell to discuss the best ways and means of Inaugurating such an rexhlbition. As pointed out by them, such an exhibition must be in the hands of the breeders and producers. and no man should be on the board of minagement by reason of his holding any poiltical or Ivic position. As matters stand, there beems ikelihood of a clash. It is now too late to get overnment aid for an exhibition this year, arid such must be forthcoming if the show is to be national in scope. Toronto may start E show, ally ure placed in control and support it theng it can pever se more than local exlibition From opinions expressed at a local exhbition on rolin and from oard meeting, and from the resolutions passed, onto's start, und uns they suppoit it whet uccess can it attain? The National show is coming and believe the Record Board is in the right difection. it is up to all other agricultural organizations to briz themselves and start the exhlibition under the ight management, in the right 'place, and cover ing the right field-all Canada.

## Making the Farm Richer.

of farmers wore discuesing the question whether it pays to buy grain for cows. "Irm not sure that it alwavs pays directly," sieil one, " but I believe it may pay indirectly. It is means of building up the land. It make your ta more valuable." "Oh' plahaw !" xclaimed another, "I'm not working to build p this old farm, I'm after the cash." The re nark carried the crowd, most of whom fallod was dairying merely for the sake If that man all the dollars he cour the sake orticular he was a fool to be keeping cows at all or at least to be keeping more than a lew to pro vide a little winter emplovment and steady cashincome. Unless he had an exceptionally good herd he could rake in as much cash with less ofort in alriost any given year by selling his crops ight down to the straw and saving the labor attendance. But how long would such a pol icy last? Where would it land him in a fov years? When we get right down to the bottom

The Farmer's Advocate AND HOME MAGAZINE.
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Mren-THAR FARMEB'S ADVOCATE,
PHi wILLIAM WELD COMPANY (LIMTED),
London, Cayada.
ompared wain purpose of stock husbandry as compared with selling crops for cash is to conserve and build up fertility. Disregard that grain, hay and straw. Few farmers now go the length of selling the straw off their farms. They use it up at home for the sake of the land. But if it pays to use the straw at home or the express purpose of soil enrichment, why not also the hay and grain? And if it pays manure pile instead of selling the sake of the not in some cases, pay to buy grain, partly for the same purpose, providing the farmer's financial position warrants laying out some money pretend that the argument for keeping hay and grain at home is quite so strong as the argument for using up the straw, nor that it is argument so wise to buy grain as to feed what has been producerl at home, but a common principle underlies it all, varying only in a degree. The edi
cent issue
phate farmer on once saw us alfalfa field. "How long do you have to wait before you get anything back or three years," was our reply. long for me,", was his answer. Then wat's too him how long he had to wait for returns when he 'planted an apple tree, raised a colt or a cali?
"Oh, that's another thing,"' he remarked. Yes, it was another thing, another place to exercise the same old faith which says, " Except ye sow, ye shall not reap.
The things that pay best are sometimes the things from which we have to wait longest for returns. It pays to invest judiciously for the future up to the limit of prudence as justified by one's means. When clear realization of these position to act wisely. When, for example,
farmer knows that his manure palie represents feed, will he be likely to let it waste und forefang in the barnyard till mid-summer? In our observation he will not,


## Ready-to-Wear Opinions.

Some peculiar views are held as to the scope and function of an indopendent paper in the discussion of public affairs. We are often reminded managing anecdote about a writer who asked his certain question. "'Oh he should take on a offend either political party. You know ours is an independent paper." Such a paper 18 inde pendent of nokody. It is less independent than the most bitter party organ, for that, at least, is independent of the opposite side. Under party system of government every important public issue is bound to become, sooner or later party question. Otherwise, politics would de conching the level of mere bickering and wit those whe and as it who want to be. There is enough of that there would we mere corrupt sething else. It would be a therefore, to talk about keeping big questions out of politics.

A disheartening fact, however, is the blind on both sides will follow the lead men and women newspapers, instead of heeding the attitude really independent publications, or even of the less bitter party organs. Let any issue develop and most of the voters will be all at sea about it until their favorite newspaper has declaned its stand. After that nine out of ten will know exactly where they are at. They will follow the party lead, whatever it may be, never guessing that the cue had been given by some astute political manager-possibly a man behind the manes whom the public hear little about. He as a strategist untabinciphed, yet his reputation arty manufacture , and enables him virtually to population of a orear opinions for half the absurdity of such country. Some day the onger possiblo,
Meantime, hope of better government lies in oore true independence of thought and action, Independence within them is good, often parties. to shape the policies adopted in caycus pendence without also helps to determine these and finally decides between them. Partizans neutralize each other's votes. The genuine in corruptible, independent element is the one that statesmen have to cater to. This element, ship.
U. S. Department of Agriculture. Under the new administration there is to be States Departinent of Agriculture, judging by duties. The amornat provided by of powers and or the year ending June 30th, 1914, amount to $\$ 17,986,945$ an increase of $\$ 1,335,449$, amount to dresent year. Prof. W. M. Hays, who has servhas been succeeded by Dr. 1904 retires, and Chief of the Bureau of Plant Industry, Connected with this department for 25 years. One little tem in contingent expenses is for an amount not exceeding $\$ 1,000$ for an oil painting of ture ; and at a farewell function of Agriculsome 1.500 ernplovees and fannilies a portry bust was unveiled, the original bronze being given was Wilson. In one of the addresses reference sumed office 2.500 workers were engaged hy as Department. While now there are some by the As indicating new directions of departmental effort, President Wilson recently announced the appointment of a strong commission of seven mercial Congress in the study Southern Comducted in Furove of Co-onerative Credit. concrease of $\$ 75,000$ for farm manarement an in-
combating hog cholera and the gipey moth cam marketing systems is to be prosecuted and int 500 is to be expended for experiments in breed ing and feedling ostriches. -The Bureau of An nal Industry receives the largest increase, viz.
$\$ 360,880$ or a total of $\$ 2,031,196$ for the year $\$ 360,880$ or a total of $\$ 2,031,196$ for the year Industry is being reorganized. and a new sec tion established including work with truck crops potatoes, sugar-beet seed and studies in land kindred subjects. Under the Bureau of Entomi ogy several new lines of work will be developed including fresh studies of fumigation practices The Office of Public Roads is increased from
$\$ 202,120$ to $\$ 279,400$, of which $\$ 15,000$ is avail able for advice and enquiries on $\$ 15,000$ is avail ment, and $\$ 50,000$ for studies in road materials. construction and maintenance.

## Nature's Diary.

By A. B. Klugh,
There is a little yellow bird which is very much in evidence just now in the garden and ip the orchards, fitting in and out among the the Yellow Warb)er, ofter mis-called the " "wild anary." The name "wild canary," if "it can b aplied to any of ous birds, really belongs to hat clorican Goldfinch, as this bird is some ow warbler belongs to a totally different family ts song does not even faintly reeemble that o he canary, and the only point of similarity be both are vellow.
The Yellow Warbler builds a compact little est in a low shrub or bush, and in it are deposted from four to five white eggs spotted with The song of this species is, like its coloration very bright and cheerful. It may be put into syllabldes: as "Swert-sweet-sweet-sweet-rchee -reet," but in this case as in the case of mosi ir them. To Jiferent ears hear diferent syllable says "teacher-teacher-teacher," but no Oven-bir ever said this to me. It says cher-wack-cher-wack-cher-wack" to me. Yet John Bur cood many thousand Oven-birds sing Theard the case of the beautiful refrain of then thite throated Sparrow, to some it sounds like "Old-Tom-Peabody-Peabody-Peabody," to others "ilike again declare it ada-C'anada." So "Yer pays yer money and yer takes yer choice.". But it is worthy of note that in the case of the White-throated Sparrow which version of syllables is the same no matter hich voru take.
Chipping Sparrow, the little brownish bird with a gray breast and a bright chestnuit crown. Its song is rather a high trill. It is a very valuausentities nighor as it eats a lot of insects and also does no The Chipping sparrow builds its hair-liner nest by preference in a tangle of vines.
How often when in the woods do you hearrustle of the dead leaves which carpet the forest-
floor : you may perhaps catch but keep perfectly still and you may be rewarded by the sight of one of the daintiest little rustling is caused bet eyes on. For most of the Deer Mouse caused by the movements of the little Deer Mouse as it darts about from one place of
concealment to another. The Deer Mouse is a
a light fawn color above, white beneath, with is largender nose and a long slender tail. more or less active at its habits, though it is There are in our Canadian woods day. of plants common!y termed Mushrooms or Toadstools. A question perhaps more frequentiy ask"What is the difference tha any other question is oneanstool ?" and the answer is "There is none." A Mushroom is usually supposed to be the brightestoadstool poisonous, yet many of species are not only most " deadly-looking ' very good eating. At the same timess, but are lar sties which look periectly safe, judged by popuis no test are extremely deadly, and there separate the edible be generally applied to ones. One erroneous idea is that the poisonous eat ; another "cap '" is pink beneath is spocies in species will misconception is that all poisonous of fact the only safe guide is to indentify matter
species and look in its rech species and look up its record. And one might
well ask how the edibility
way. The botanists who have made a special
study of the Fleshy Fungi, (as the Mushrooms and Toadstoois are called botanically), have first if the flavor was hot and peppery or otherwise disagreeable it was condemned on this account. If it was pleesant, then the investigator waited for the resuit of evil ffects were noticed, next time himself. If no evil efiects were noticed, next time a larger piece whect again was not harmful then one of the specimens was cooked, eaten and results again waited for. If still the specimen agreed with the human alimentary tract a dishful was eaten and on as edible. Among all our species there are very few which are easy enough to identify to allow of
them to be recommended to the public. One of these forms is, however, new quite common in
our woods. It is the Morel, a form which resembles a sponge on a stick, and which is brown
or blackish in color. As the other easily identified edible species appear I shall mention and describe them.

## HORSES.

Regular feeding is very important with the horse at hard work

Sow a few extra rows of turnips this year, that the horses may have a few during next winter. Carrots are also good, and sometimes parsnips are used to good advantage

If the heavy-draft stallion, to which the draft mare has been bred through the season, does not get her with foal, do not, lin desperation, take
her to a light horse Try another drafter.

Are all the heavy-draft mares in your stable bred and safe in foal? You cannot afford to ellow them to miss a year. Colts are valuable, and may be raised while the mare does her usual work.

Have the colts' feet put in good condition before turning them to grass, and level them up from time to time afterwards if they show of these is far more important than most people realize.

Some care is necessary in feeding the work Some care is necessary in feeding the work
horses. Putting enough hay in the mangers to last all day is not good practice. The horse has only a short time to eat, and should get at each feed just what he will consume before going again to the field.

There is no danger of any future halter pulling or breaking if the colt is taught to wear break the strap when occasionally it is tied for a short time to teach it this lessign. This habit of tying occasionally should be practiced
with more and more frequency, and of longer duration at a time as time for weaning nears. Then you will have no trouble when the colt is
separated from its mother to be tied by itself.

Water for the working horses, which are likely to be watered warm, should not be too cold.
The trough pumped full in the morning provides suitable drink for noon, and filled again at noon is in good condition for the evening. Horses, it is generally believed, should le watered before It is not good practice to give over-heated animals very cold water, and, so in order that the horses get their water before feeding during the heavy work in hot weather, it is necessary that
the chill be off the water. A few hours in the sun does this.

Speaking of working in-foal maras, a horsemirs was once heard to remark that when farming and had only a few horses, it was necessary to work his in-foal mares regu-
larly and comparatively hard. Then he had few losses, and aood results with foals. As
years passed by more horses were kept on the years passed by more horses were kept on the
place, and the in-foal mares were not so needed place. and the in-foal mares were not so needed
to do the work. They often did nothing when carrying a foal. and a marked change 'was aoticed in the success with foals, a much arger
percentage being lost. Work for the mares and vigorous foals seem to go together.

The Work Horse at Pasture.
Many of the farm work horses are already away to pasture nights and are brought in to
do the day's work each of the six days of the week. Some hesitate to send their hard-working animals to grass in the spring, and not without some reason, for very often the nights are cold
and damp and the horse has been accustomed a warm stable throughout the winter, and in Thany casses has been very warm during the day. These are factors which tend to make the horseman in favor of pasturing early, but there are some young grass has invaluable medicinal, system renovating powers when fed to a horse which has heen maintained through the winter on dry feed. Maintained," is used for a purpose because a maintenance ration is not always a health pro-
moter, and while the animal may not lose gain in weight, it is quite possible that its vitality may be lower after several months of such feeding. Again, if the horses have been highly
fed, generally on heating feeds a cle fed, generally on heating feeds a cleanser is necos-
sary, and pasture grass is the cheapest and most effrctive. The horse needs ". sieapring medicine ", and the time to get it is. early in the season, becuse then the grass has a more potent effect than later in the summer, when it becomes hard
and parched. The work horse should not be turned out on
good pasture "all at once." Take time. Do not start therm on it when they are very hot. The
writer remembers a case of an in-foal mare Writer remembers a case of an in-foal mare
which after a hard days's harrow wing. on a hot day
wis two hours showed unmistakable signs of acute indigestion, which developed into inflammation
and she died in less than thirty hours from the and she died in less than thirty hours from the
time the harness was removed after her day's time the harness was removed after her dayts
day's work, before turning out, that his hunger
may be partially appeased, and thus dappor may be partially appeased, and thus , vapipipy ort
digestive troubles due to gluttony 15 to ar groat extent avoided. or or course, after the horsegpan been out to grass for a time, it is not neocem quite as large a grain ration as it he wers fod wholly on drye feed. Thrs must be gaved by tois. kind and amount of work being done.
It is important that the horses aro in tholr stalls early in the morning. They should have going to work. This gives the teamster plonty of time to clean and care for them and they also have an opportunity to eat dry teed, and aro not so gorged with green feed when the hour for horses it is important that they caring for the each night before being turned out to pasturs. This makes less work for the morning and placose them
Green foed in plonty can throughout the summer, and as the seeson advarices, clover and alfalfa may prontably be substituted for hay in the mangers for the horees to and evening feed. No matter what rourghage io fed, grain should always be given the horse called, upon to do strenuous work. Rolled cats aro preferable where the horse is working hard.

## LIVE STOCK.

## Emulsion for Calf Feeding.

In the course of an article about call rearing trom coenonnt hes heen a vilifined fat derived


Dunure Myrene.
First-prize Clydesdale mare, Kilmarnock and Ayr Shows, 1918.
out to grass at all unless he is accustomed to it. There 18 a big difierence in the demands made
upon the digestive system when it is gorged with upon the digeestive system when it is gorged with
new green feed than when called upon to slowly convert dry feed into available form. Care is necessary. Some evening after a comparatively beas over heated and are not very tired, turn been over heated and are in the field for a couple of hours, after which place them-back in the
stable and feed as usual. Do this until the stable and feed as usual. Do this until the
horse is accustomed to the change of feed, when, horse is accustomed to the change of feed, when,
if the nights are warm enough, and the horses have not been over done and are cooled off, they may be left out until morning. If it is raining, or a cold
as well inside.
There is another point in favor of pasturing, and that is, the effect upon the animal's feet. The soil is usually damp and cool early in the season and the grass soft and spongy. Just what
the horse's feet require. For the feet, pasturing the horse's feet requit
Where the greatest mistake is made, when the work horses are turned to grass, is in the dropping out of the ration of all dry feed. The grain
feed must be kept up if the hard-worked horse feed must be kept up if the hard-worked horse
is not to lose flesh. Where this is done heavy is not to lose fiesh. Where this horses are found to just much worls on grass as on dry feed alone, and generally keep in better condition. Hay should be given in small quantity at noon, and the horse should be
left in the stable for an hour or two after each ly designed arum
some very excellen some very excellent nature is offered. As
the author, $\mathbf{D r}$, Pani the author, Dr, Paul
Schuppli,
remarlce, with the rising prices of milk, and
the better methods of the better methods of
tur in ing the milt supplies to ace
count, it is natural that an a tiompt
should be mado should be made by
call rearers to dit.
cover eflectual cover erectual sub-
stitutes for thit sub-
stence. ofeny, Indece stance Mry, Indeed
most, of the suleti-
tutes $h$ a $v e$ proved tutes havo proved
useless and do not
replace milk in at all a s a t is it ector or
manner. Although cortain measure of obthed by giving hort time alfor it
birth, and rearing it
subseyvently with the pesistance
every poseible toe
provided the provided the greeted
care. and a cortatio
emount of montit expended; yet the results are not wholly ail sitiefor a longer time with milk, even' il belim suppliti gradually substituted for whole mill, According to this method, a heiter call would be siven mall
for about five months, vis, whole inil tor two for about five months, vis, whole will for two months, this beng gradually replaced by altem
rnilk during two months, and skim pillk bolng fedl alone for the last month. In the cape of a boll call, milk is given for eight months ; whole mill whole milk and skim milk for four monthe skim, milk alone for one and one-half montitit The guiding principle is never to give the cati
large quantity of mill, but to give fit large quantity of milk, but to give fi pver.
considerable period. The expense entailed io so great and the result is far more satiatector than if a large quantity is given at firector soon discontinued. The result of the last-mind tioned systam is to produce a fat animal hrst, i,e,, one that has a large amount of reberve, sub
stances, which are of ittle use to a calf. On the contrary, if the over-feeding is continued throughout most of the rearing poriod, the se sult is a direct decrease in the milk yield. When the milk rations cease and the calf is fed on
nom-fatty substances, it loses the fat it puits on when fed on milk and becomes pot-bollied. Th aid of the breeder in rationad feeding is to supply the young beast with such food as will enable it to use all its energy for the purpose of its perfect development; or in other worts,
the growing power of animal must bo cop
tinually brought into play by means of its food so that, its growth gets no check. writer became acquainted with the Paris, the vogue, in France of replacing milk fat by another animal fat in calf rearing and fattening. En couraved hy the success of the method, he made experiment, in the same direction. In order to ensure satisfactory results and to obtain as much its substitute, he selected for the latter a vegetabe fat, namely that obtained from cocoanut; this tat has aiso been used for cooking purposes
as a butter substitute. The cheaper fats are as a butter substitute. The cheaper fats are
those obtainea from plants. Cocoanut fat also contains 99 per cent pure fat, which is not usually. the case with other similar substances; adultchation is far out of the question, as no 95 grams in about one litre (about By mixing skim milk, a milk with $3 \frac{1}{2}$ per cent of fat was obtained, i,.e, one corresponding to the average milk used in rearing, for it is of no special advantage
In order, to make a suitable mixture, the fat and skim milk are heated to $60^{\circ}$ C. $\left(140^{\circ}\right.$ Fahr.) and passed through an emulsion drum. The. object is to obtain a mixture of skim milk and
of melted plant fat suitable for feeding the mixture must not be allowed to stand, but should be made fresh eich time, as the fat rises like that of whole milk, and thus each calf does
not receive the necessary proportions of not recinge the necessary proportions of fat plant fat and skim milk with a hand apparatus, and ali attempts that have been made to do shis have proved unsuccessful. It has been emulsion-milk is apt, under certain circumstalled to cause scour ; but this can be largely avoided by pasteurizing the skim milk.

## Barley Meal vs. Corn Meal for

 Hogs.The relative values of barley meal and corn meal for hog feeding have been tested out by the weeks of age were fed on these materials for 92 days. The difference in live-weight, increase amounted to about five pounds per head. and difference was so slight that the cost of production may almost be regarded as equal. Buyers favored the pork from the barley-fed lot, but in
no case was a higher price paid for it corn meal cost about price paid for it. The the barley meal, and as the cost of gains was approximately the same, it was reckoned to be
worth this amount more than the barley. worth this amount more than the barley. skim milk were fed each lot in addition.

## Rabies in Milk Cows

M. H. Reynolds, a st. Paul, Minn., veterabid cows, causing rabies in humans or fro partaking of it as follows
Veterinarians are very frequently asked as $t$ the, danger froin milk, loood, or saliva of rabid cattle, The "exparience and observations of many, authoritles indicate that there is slight,
or almost no risk from milk consumed in the ordinary, way. It is conceivable that milk from a naqud fow might produce rabies in case of a distinct injury or abrasion of the mucous mem It, might, be possible, also, for such milk to month, stomach. or intestines rove dangergus to yery young infants. on th thegryonthat the mucous membrane lining th digestive, tract of the infant, is less resistant to Actual experience shows, however, that such infections. either from, milik in connection with an abraded muçous mexibrane or when gi It has been shown by experiments, that dors may be fed the brain of a rabid dog, or miks glass for example, be mixed with the feed so as to scratch, the lining membrane, then rabies ma'y brain or milk. Sanitation officers are quite gen erally agreed in the view, that the danger from consumption of milk is not of much practical
importaince. It happens occasionally that people mportance. It happens occasionally that people
se milk from a cow that is developing rabies lefore they know what is wrong with her. Of course, no one would use milk from a cow that
was evidently rabid.
rom virulent blood is exceedingly variahle. horoughly drled for two or three days, it loses dirulence to such an extent that it is probably
oot dangerous. Howeyer, if blood or brain sub not dangerous. However, if blood or brain sub
stance, in any considerable quantity, remains

It is found that such material does not retain dangerous virulence at roorh temperature more
than two or three days after it has been than two or t
thoroughly dried.
There is ordinarily little or no danger from saliva around the cow yard or straw pile, beby the wind, and because the chance of infection hoculation is so slight.
Saliva may become virulent from four to ten
days before the animal shows symptoms

## Warble Flies.

A new bulletin on "Warble Flies," has jus been issued by the Dominion Department of Agri first assistant work is by Seymour Hadwen Agassiz, B. C., who collected much evidence in the course of investigations carried on. The man is the farmer. The tanner doesn't want warbl ed hides at any price. Range cattle suffer most and present the most difficult problem, as no method has been found to prevent the ravages of From investigation work in From investigation work in New Brunswick, from letters from leading tanners in these provinces, it was learned that the average percent34. of grubby hides in the four provinces is warble season 56.55 per cent. The length of the warble season from the tanners' point of view


Miss Mayflower $=103244=$
a the back thiking ab high as the stifle
ive larvae wer of a calf on August 15 ; four were taken from the oesnohagus af a cow on November 14, and
the last time the warble flies were seen near the cow was on August 2, so that the larvae would be about four months onf. Thia first larvae were sein to emerge April 10, and the last were eady to come out July 2, It is evident that licking.
Many remedies are recommended for killing or extracting grubs. As for the practice of killing
the larvae under the skin by injecting petroleum or applying mixtures to the back, Mr. Hadwen considers it unscientific, for when the qarvae
dies, its body has to be absorbed. This is likely to take some time, and do the animal harm the warn metho, uns ant. first, in this way the possible, sottening the skin Moussu says that in Denmark the various agri cultural societies engage men to go around and squeeze out the warbles early in the year ; using a small knife to enlarge the opening when necessary. I do not know how tanners would jury to the hide would be small, and that the resulting scar tissue would be less than in the themselves the larvae were left to come out by hemselves. Of course in a small sea-girt couneradicate the fly in this way, but, in Canada, under present conditions, it would be an imtures applied to prevent the fly lay-
ing, are according ing, are according useless, and many of them are said to be injurious to the hides, and to the
animals themselves. In this country cattle are the fa cartie heosts of
vorite $h$ os the only warbles, the on 1 other an im mall
have seen affected are horses, but rarely so. Eailliet
records them also records them also ar sheep and man
but. remarks tha but remarks tha to be found in any special part of the
body, lut wander about and do no reach maturity.
In the Southern States, where dip-
ping of cattle is ex Included in the dispersion sale of the Spring Grove herd at Ilderton, June 25 ping of cattle is ex
tensively practise extends from late January to early July, the for the eradication of ticks, it has prens found
worst period being during Nearly all tanners are agreed that the rough to result in preventing grubby hides, the dip long haired, ill-kept animals are mostly warbly mals are not so badly affiected. animals are always more parasitised than the
strong, and cannot fight the fly as- well more robust ; but Mr. Hadwen believes that the simply means that they are at the mercy of the hy all day loug, whereas dairy cattle .nd well of the day..Another reason is that cattle kept in or near towns will naturally be less exposed about. Stacks of the fy, as there will be fever the tanners mention thie fact the number of grubs. The answer to this is cloudy weather. The hides coming from contain
districts are mentionei districts are mentioned as being comparatisely
free irom gruls, especially in Ontario. Some of them are darry contres, and the above a guMuch controversy has resulted from time ts kinue, regarding the life history of this pest and
the manner in which it is and skin on the backs. nf cattle. The work was cione he Mr. Hadwe" with Hypoderma hovis. Basing specimens it was tomed that it ropuited of anempal
the emergence of the tive
Glues substance near the. has hen hom home a


## The Canadian National Records.

 It must be a source of great satisfaction toreeders
 reed societies or associations in respect arious rations are in such a fayorable condition as rey are at the present time. The eighth annual report of the Record Committee made to the
Record Board and llecurd Association arnual meeting recently held in Toronto, showed the year just passed to be the Toronto, showed history of the Canadian Live Stock Records, and 111 the breed associations are financially in la splendid position to go ahead and increase their business, and of the twenty-two ansocia tions affiliated not a single complaint was heard ion. Surely this is. proof enough of the value of nationalized records. If they were not prov ing valuable, the wide-awake executives of some register their complaints would most certainly tion only in the Dominion remains outside at at present, and they do so not bacause any fault can be found with the keeping of the records or the carrying on of the business. in connection
therewith, hut because they believe it is cheaper for them to carry on their business it is a cheaper
feparate notl: This belief is based on a report made by thi, of their memtiers at the last annual meeting of the association, after looking. into the
cmnparative cost of operation of the two
mothods. Acordin

## JUNE 5, 1918

THE FARMER'S ADVOCATE.

Record Board, the investigation made by these men into the operation of the National Records such as was made, and the Board and Recor Committee estimate that the clercial work of the association in question could be done at less
cost to the association in the National Record omice than under present conditions. Further investigation has been, invited by the Board, and
the workings of the Record office are open to all the workings of the Record office are open to all
live steck associations lin the Dominion. If it costs more to operate an association affiliated with the National Associatian than as a wholly other associations have not found this out proof of the pudding, but twenty-three would b better still, and it is to be hoped that the fina outcome of the investigation will place all 'the
live stock associations in Canada in a position

Have Western Breeders a Grievance It's a rare thing to find an organization of
any kind with which absolutely no fault may be ound. Individuals are not perfect and committees state more closely than their individual members. Some Whestern live-stock breeders seem to hink they have been, and are being, treated unFirst and foremost, they say they do not get heir just number of members on the executive of these associations. Whether this is true or not, the fact remains, as pointed out hy Peter
White at the National Record Board meeting, that hen and not geographical position should be the Speakers at the Board meeting stated that had Western breeders known just what they wanted hen coming to the annual meetings of the var ble number-of nominees for each, no doubt mor ould have been elected. As it has been in th ast Western members were nominated for nearj all positions, with the consequence that a large number were defeated. Representation on the
Record Board is madle by the various associations in annual meeting. On the present Board it was pointed out that there are ten Western mon, and only one turned out to the annual meet ing. It was also pointed out, that of nine
oficers in the Fercheron Horse Breeders' Associa tion eight are located in the West and one in in eight are located in the West and one in
Ontario. In the Suffolk Horse Society with an xecutive of twelve only one is located in Ontario, and eight of the Aberdeen Angus Association reeders. Hiere are a few instances where the shoe is on the other foot
Western breeders also contend that they do not get their "just portion of the prize monies al-
lotted to their exhibitions as compared with the mounts given to Eastern shows. A glance at the grants compared with the registrations and membership fees in each district does not always how them to be getting the small end. Take or, instance the Shorthorn Breeders' Association.
The figures show that grants in 1918 for Ontario The fisures show that grants in 1918 for ontario numbering 4,036 , and, membership, fees of $\$ 1,892$ get, in prants in 1913 , $\$ 1,900$ and had only ership fees. A little more than half $\$ 968$ mem nembers, scarctly half the number of registra tions, and they are, to get this year $\$ 200$ more noney than the Eastern shows.
grants for 1913 , amount to $\$ 3,400$, while tho or the three Western Provinces are while thos
or
or Ontario paid in 1912 in membership fees, $\$ 1,892$ while \$all three western provinces together only paid \$916. Ontaric ${ }^{2}$ had in $1912, .2,246$ registra
tions, while the other three provinces had 1,510 The. Percheron Society is more mark?d still. In, 1913 Ontario is to get \$250, and omly got $\$ 85$ 1912. This year the three Western Provinces ees in 191 . $\$ 90$. Mantario paid in membership $\$ 56$ and Alherta: Manitoba $\$ 62$, or $\$ 178$, Saskatchewan Western Provinces. Scarcely twice as much paid in; yet they ge
money granted
The Dominion Sheep Breeders' Association's affairs show similar conditions. The grants to
Ontario for 1913 amonnt to $\$ 448.20$, the three Western Provinces getting only $\$ 115.70$; but Ontario in 1912 had 1972 registrations as against Ontario in the West, and membership fees in
ind2
were
$\$ 137$, but only $\$ 38$ for Manitoha, Saskatchewan and Alberta combined Western Canada is being robbed of its just dues $n$ any way by the breed associations in the matter of grants. It rather looks as if they ave been liberally dealt with. No controversy
justed differently, the thing to be done is adthe matter fully on common ground and come o an amicaible agreemant satisfact and come This article does not propose to show that every regard to perfect, but simply states the facts in bership. Canada's livestock and executive memomplish what they should if any division ac curs in the ranks. They must show a united

## THE FARM.

## A Frest-Proof Wall

ing pace with, the march of progress. The decorative possibliities of brick are being demonthe finished product can be constructed into a work of art. The different colors, shades, and sizes of brick hold almost unlimited possibil the heart of the architect and the home delight Neither has utility been neglected. For many vears Mr. Broadwell, of Essex Co., Ont., one of
the oldest clay-workers in the Province, ha


Frost-proof Wall Under Construction, Showing
been seeking to discover a way of producing
frost-proof wall, and hás fitlally succeeded by using hollow tilp, combined with ibnick. Thie hotograph shows the inside corner of the wall enough. In each $4 \times 8 \times 12$ tile are two hollow spaces, as can be seen; some two inches square. The hollow spaces extend through the blocks so that, in laying, the hollow evid of
one will abut the solid par't of the next which adds strergth to the wall. These spaces which tain "dead air." The outer wayl is of a foturach brick, and between it and the tile wall is air-space of three inches. This space conberause it can pass on up to the roof Now dampness and frost are conducted through the brick veneer, but are held by the three inches of ar, which is stopped by the hollow-tile wall, ery, and has found it to be entirely frost-proof Both walls in the three-inch air-space are plastered over, so as to prevent "hangers." The two walls are braced together with strong galvanizedvery wire, bent in a " z " shape, thus making a
vers about sixteen inches apart, but in small buildings need not be so close.
This discovery should prove a good thing for ficter. By its means, he can build at a ummer, and frost-rionof that would be cool in summer, and frost-proo in winter, in fact a
cold-storage building. Thus, instead of sacrific-
ing his root and apple crops when ppices are low cording aal, he could store them and take out acthrifty farmers pit such produce, but this methad, aside from entailing a good deal of work, has in the depth of winter, which is usually the time when produce is at its highest price. Es pecially in towns and sniall citios it has often
happened that so much produce was happened that so much produce was pitted that couraging many farmers from repeating the experiment.
Hollow tile also makes a fine barn at a modtile without the outer wall or brick veneer hollow is entirely unnecessary for a barn, at a cost of about $\$ 1,500$. When its handsome appoarance, its durability and other advantages are considered, it makes a cheap barn. The lessened risk
from fire is also an important advantage. The frost-proof wall when proverly cone makes an ideal dwelling. The foundation need so be 11 inches wide, of brick or concrete blocks, so as to receive the veneer wall of brick, and the
inner wall of hollow building tile thick with three-inch air space between the walls. This "live air", acts like the flue of a chimney, thus providing, ventilation. On top of the wall is laid a plate, consisting of a plank on which
the rafters are to rest . This plank is per forated with auger holes, which pernits is per from air-space to escape un into the gable of the building. The rooms of the house are provided with ventilators, which can be opened or closed
at will. In this way the air can be fectly pure without opening doors or windows or in any way letting in the biting cold air, draits of which chill to the hone the invalid or fuel. At all corners increased consumption of the dead-air spaces in the hollow and windows, ed. Pieces for this purpose are made at the facting, smoke opening a ventilator all odors of cookNo lathing is necegsory as pled onf. fectly to the tile. The main advantacke per comifort, saving in fuel, healthfuliness lessaned risk of fire, durability, appearance and less cost than for a solid brick wall.
Essex Co,

## How Long Will Seeds Live?

 Editor "The Earmer's Advocate, head of this tetter whesting question at the in "The page 948, I beg to offer the foll 22 nd of May, experience with seed of fax and account of In '1901' I gatione ' student the tenching of a lesson on flax shool ing that he "had worked for some time in a flax mill. He wrote for objective material to themill-people, and received a gonerous supply of plants, seed and filbre. The material supply of plants, seed and fibre:. The material unused in
his lesson wes left with me. Thls stock of enough at the time to fill a quarit bottle, was. put in one and corked. Several times since taking up germination I have used flax seed from this lottle without noticing any deterioration its vitality. It is now, at least twolve and a
half years old, but it germinated satiofactorily
this spring. On reading your article I tis spring. On reading your article I, resolyed an equal number got from the seed store to today A fow months but bwithin a year, aftow the two of impure timpthy feed for class practice in some of this material ielt pet purity, There; if ever since in a closed glass isealer".". I uept frese seods of five other kinds. this experiment a race as is done one might call stimplate the interest of pbsianMrs the timothy seed, now nearly, twelve, years old, came out From these and a numbiy that of let tuce. . definito experiences, I am led to belleve that the conditions under which seeds are lept so greatly afiect their, viability that, it is, unsafe, to, sweet corn come up that lay in the ground all waper and two-year-old sweet corn kept, in a better than one-year-old the thouse germilyate crasses abovo referpil to weed of the flax and, the glass containers, and at a temperature that ing-room. The embryos were a comfortabile liva ng-room. Trozen. Stories that I I have heard of out germination of seeds, such as those of mustard more of years, do not seem to me to exceed the more of years, do not
1ounds of credibility.
London, Ont.

IOHN DEARNFESA

## Results of Selecting Seed Oats.

 Prolonged wot-weather during the harvest sea-son last year, caused many oats to sprout in son last year, cauped many oatt to sprost in
the shock, and reducea the vitality of others. At Weldwood, we sayed ours in better condition
 ed a very satisliactory percentage of germination,
but the growth wes not so strong es we desired. but the growth wes not so strong as we degired
Believing that the best seed is none too good, we procured samples from several lilkely sources. By far the best came from a seed merchant in
Prince Edward Island, who advertisee regularly in "The Farnuer's Advocate." Slow movement of freight made it uncertain whether the seed hushels. The merchant, on his own responsibilIty, increased the order to eight bushels, putting in four bushels of hegistered Ranner. Theso
latter were one of. the finest samples of lattver were one of. the finest samplies of oats we
have ever peann. They jarrtved May 2nd and were sown the next day. As they bore the address of the growe, W. H. MMay. $\begin{aligned} & \text { regor, we ad- } \\ & \text { dressed to him a few enquiries which he answers }\end{aligned}$ dressed to him a lew enquiries which he answers
in the letter appended. His letter is encourug in the letter appended. His letter is encourag-
ing, as showing what ran be done by persistent ig, as showing whection.
inteligent seed selection
"I am very glad indeed, that, the bag of oats you got of my growing pleases you. asked to join the C. S. G. A., at the time by the accretary, h. H. Newman. I commenced with present season we are selling the result of twelve
years
work. Last season we somed sevent years' work. Last season we sowed seventeen
pounds from hand-selected heads, on one-guarter pounds from hand-selected heads, on one-quarter
acre and selected heads to thresh thirty-four pounds, and threshed 21 bushels of elite stock 17 bushels in inels per acre. This we reduced to 17 bushels in grading, and have sown the latter amount. This season on a splendid field this year, which should be a good foundation stock for anyone wishing to get improved seed.
eparate, having only limited space the varieties separate, having only limited space through the
winter. It cannot be put in bags as the mice would destroy them, and storage from mice is not to be found anywhere. Could we make the sales a little earlier in the winter we would
be saved a lot of trouble in this reapect be saved a lot of trouble in this respect, as
at the opening of nuvigation we must have the grain ready for immediate shipment. When hen it
has a long distance to go customers have the his a long distance to go customers have the right to expect prompt shipment. We have does not any more than pay for the labor in volved and taking a chance of having a quantity left over, as very often occurs. - Last year all varieties of grain took longer to mature than usual. Our seed plot was sown on May 16th and
matured
on
September
13th, months. The weight per measured bushel is 41 dos.: Ordinary oats are much below in weight. at Weldwood, under your conditions. it will do well, wivth you. If it does you Registered seed to your readers as a very doeit able way to enhance the value and yield of their

## Steel-Rail Anvil.

Doiltor "The Fe
I noticed a plece in "The Farmer's Advo-
cate" from Mr. Bradt. in which I was very much interested
reartily endorse what he says about every farmer having a workshop. In fact I don't seo
how a man can run a farm of any protentions vithout one.
Thave an implement house 24 feet ly 80 feet. a get up of my own, 8 by 4 hard-wood scantling, the jaws reinforced by t-inch iron plate. The screw is a strong one, and serves three purposes oheose press, heading apple barrels, (I handle my own apples) and my bench work. It stands six
lichee above the bench. I want to thank Mr. Bradt for the information he gave about build
ing a home-made forge. It was juat what ing a home-made forge. It was just what 1 atnteali anvil, with cold chisels and tongs. Have been wondering whether there would be room in my shop for a forge, but it's pretty weol filled
up with odds and ends of all kinds, even to the upstairs, where $I$ keep my sap tanks, pan and uckets and other appliances.
my anvight it is is maderente out of $a$ piece of steel raill (if you can get on the good pidide of a sed
tion boss, you may get a piece of rail for tion boss, you may get a piece of rail for the
nsking) mine cost me nothing. My blacksmith made a horn on one ond. Then I took it to a
foundry, they drilled a .-inch hole in from the made a horn on one end. Then they drilled a tinch hole in rom the
foundrend and close up to the top part of the
other the and rail, then they drilled a thinch hole from the top

This is to put a hardie in and for punching holes in iron plates.
The drilling horn ang cost me 40 cents, making the take a three haller hill 35 cents. I wouldn't most useful things about the place HiNKLATER.

No More Threshing Dinners.
Indiana farmers have stopped making threshing day ast hring his own dinner, and go eac supper. This fact was brought out recently by a graduate of the College of Agriculture, O. S as ' who was in investigating conducted in Ohio "Threshing Ring' Indianal These "rings" are proving more popular every year and one of the very best things which they have done has been to do way with the extravagant they serve is to give each manar the sumpo kind work at every threshing during the season. In this way a man becomes familiait with his task, and the whole job is accomplished more rapidly and easily. No wages are being paid anyone to
stand idie, nor is anyone overworked. The suc cessful "Threshing Rings" usually have 'a very simple plan of management. Common sense will suggest a basis for apportioning the hel each man raises on the acreage of grain whic


Sir Hugh.
Champion Ayrshire bull at Kilmarnock and Ayr showe.

Maintenance Left to the Township.
very well Western contemperary puts the case very well for an organized plan of maintenance
of country roads. Maintenance is unquestionably the weakest point in our good-roads effor
o-day. But this is how it grees. Dominion and Provincial Municipal Councils are voting millions of dolle for the construction of roads without, it would seem, even a Cleeting thought being given to the
upkeep of these roads. It is conveniently ered that this imaportant factor in rural considportation is delegated to the township. with the work carried on largely through the individual armer on his portion of the road. No uniform est work is given, with the result that earn few years' desultory work on the part after the roads are allowed to deteriorate, as the will, to be reconstructed in a greater or lesse number of years as a 'better roads' wave sweeps
over the country."

## THE DAIRY.

Milk testing sometimes reveals curious facts A pet cow whose " good rich milik", was reserved
for table use, was recently discarded er when cow testing proved to his dismay that The marked increase of interest in cow test ing is one of the good signs of the times. New dairy record centres have been ostablished this vear at Alexandria and North Gower, Ont Scotsburn, N. S., Sussex, Ste. Henedine, Que, making twenty-one in all, with a recorder sta

Color and Richness of Milk.
Popular opinions about the richness of milk on which judgment is based is the familiar sign milk. Because skim milk appears more white the blue than the whole milk from which it wor separated, the conclusion is formed that the degree of yellowness denotes the degree of creaminess or richness. To learn the error of this. con-
clusion all that is necessary is to test a dozen samples of different cows' milk ah of the same herd. It will be found that some of the most whitigh samples test among the highest. Breed but the color does not vary in direct relation,

Feed also affects the color quite independen of the richness. Just after the cows have been turned out on grass the milk and butter will be fall when pumpkins are being fed. Ask ant cheesemaker whether the yellow milk of this season is the richest. He will tell you it tests and that it takes more pound of milk the year, a pound of cheese. Here again the color test fails completely.
But there is one test which many a dairyman has sworn by with all confidence. He would se and judge by the thickness and toughness of the cream layers which rose
in the different vessels. We remember hearing du a int old character milk raised so tough a cream that "a mouse wouldn't over it and it Another said he could certain cow's milk and hand it up on a nail
Such milk was believed to be wonderfully ric It would surprise many of these men to be told that their tests have in-
dicated the opposite of what they supposed. Given two samples of milk, one of which raise glass tube while th other raises three-quar ters of an in ch, the be the richer sample. cream will probably be has very large fat glob ules, which rise fat gickly, considerable guantity of milk serum which adds to the bulk and toughens the consistency of the ules, which find their way slowly to the surface carrying with them a lesser amount of milk serum reducing both the quantity and consistency of the cream than it does in pastry. The more short ening ''n , the pie crust, up, to a reasonable amount, the crisper and mellower it will be The less butter fat in the cream the less tough and Ayrshire cows usually has small fat globules and their cream layer is generally quite thin. It often tests much better, accordingly, than one
would suppose from the depth of the crean would suppose from the depth of the cream layer. Shorthorns, Jerseys and Guernseys ' give milk
with larger fat globules, and, therefore, their cream separates and churns more thoroughly where primitive aparatus is used. The Babcock test and the cream separator have been friends
of the Holstein and the Ayrshire cow. City holstein and the Ayrshire cow.
need a deal of education on the millk quention. Their delusions are persistent and many. They form wrong opinions and stick to them, the palate often harmonizing unconsciously with the eye. Betwen what we know and what we sup-
pose is a wide gulf to be bridged by science and
educative propa educative propaganda. It is chiefly the substance of the milk that should count rather than
its tint. its tint.

It is a good plan to keep the dairy calves and voung heifers growing and in good condition. A it is generally not an indication the owners, a are running towards the beef that the heifer a sign of health, thrift and good management It is not often, under average care, that they wil their too fat, and after results, when they tak their places in the herd, almost always prove the

JUNE 5, 1913

## THE APIARY

Beekeeping During the Month of June.
Editor "The Farmer's Advocate.
The observing and experienced man no doubt has observed with what rapidity one of long ex-
perience can do work to which he is accustomed. More than that, he can size up a situation and know just what is requir
ter into the needed condition.
Let me use an illustration which should appeal to the agricultural class. Hogs in the great laughter houses are killed, scraped and prepared or market with a rapidity which has, astonished
he beholders. The reason is two-fold, experi
to ance and study, with money, have given the best equipment, and. experience in workmanship has onabled man to make every move tell. So is it
in bee-keeping. "Experience makes perfect.": in bee-keeping. "Experience makes perfect.":no, I dare not say expat, but experience should may see what is wanted when the uninitiated discerns nothing. Or he rolls the quilt back on the uire or do not require room. Such experience quire or do not require room. Such experience yet this undoubtedly can be helped by judicious uition along with the experience. One of th difficulties in connection with the tuition in bee animala can brought into a class room ing, an tree may be pruned in the dead of winter, bees cannot be handled in the winter, neithe can a colony be taken with the combs, indicating that they need more room, yet, if care is tak-
on, valuable instruction can be given, which must mostly benefit one who has already some exper ence. A very critical time with a bee-keeper is when the colony is in a condition that it should the bees from having the swarming impulse. There are many bee-keepers who do not know nough about their bees to give them room at the right time. It is no longer considered good
management to have early swarms. If the bees management to have early swarms. If the bee have wintered well, and depending in a measur
upon whether the bees have been able to gathe rom early blossoms, and if the hive is large or mall, one should watch the bees fairly closely all through fruit bloom. It is not often that olonies will swarm during fruit bloom, bu he production of comb honey it is much more ifficult to know what to do than in the produc tion of extracted. With extracted honey an upper story with drawn comb can be put over th orood chamber, putting no queen excluder be deposit eggs, and brood can there be reared, per haps increasing the number of young bees. When The clover flow comes on the queen can then be er, the brood can hatch in the super and the comb there used for the surplus honey. I have never had any honey left in these super comb when clover came in, and I may say with my welve-frame hive the amount of brood in th With put on the comb foundation in the sections, firs of all the queen bee is most unlikely to have any esire to lay in the sections, next, if honey is uality very little of it is found in the sections. My advice to inexperienced bee-keepers is to produce extracted rather than comb honey. we know Ben lu be aske? question of the time or kind of bloom, but first the condition of the colony. If the combs in the brood chamber are almost all full with either eggs (one in a cell means it is full for the hey 'should be supered, providing that honey flow may follow. By that I mean that the indications may plainly and unmistakably poin th, or actually indicate that clover is about over here is then no use in putting on supers if clover. This is true in my own section
The comb indication that bees require room is the elongation of the cells in the combs show that the bees are using any available room in above the brood does not necessarily indicate tha the hive is crowded. The bees practically al Ways build the cell walls longer, when they stor honey in the comb, than if the brood is hatche
in the cell. extended to the top bar, then if honey is store above the brood, the bees may, and often do, at tach fresh wax to the cell wall of the comb. hive should be supered, but with a strong col

THE FARMER'S ADVOCATE.
continuing, is a sign flow on, with a prospect of it continuing, is a sign of super room, provided the
colony is not superseding the queen. Almost full combs and the promise of a continued Almost full are the prime conditions for supering bees.
Brant Co., Ont.
R. F. HOLTERMANN.

## POULTRY

Shade, Water and Grain during Summer
The hot weather is at hand, and the poultry, including the young chickens, are all out on a
free range, or in the poultry yards. It must be remembered that poultry, especially young chickns and ducks, require shade. If a number of the oung birds are noticed to become weak and sudit can penerally be concluded over their backs, an overdose of sun. While a moderate amount of sunlight is essential to poultry-raising success, shade during the heat of the summer is also absolutely necessary. Here is where and when the orchard proves a good place for the chick-
ens. There is shade in plenty, and where the land is kept cultivated the poultry where the able feed in destroying grubs and insects of var ious kinds.
Heat also means thirst. Even though green leed is abundant, it is surprising how much water a flock of young chickens or laying hens will consume each day. If possible, place the
water troughs under the shade of a tree, or at any rate in as a cool a place as is available. This will aid in keeping them clean, and clean troughs are very important. If blth is allowed unfit for use and the water may in a. short time become sickening to the birds. Putrifaction and ermentation take place much more rapidly in a high than in a low temperature.
If best results are to be looked for some grain
aust be fed in addition to the feed which the must be fed in addition to the feed which the
birds are able to obtain in their rambles over the fields. Too many farm flocks are compelled to pick up their entire living during the summer months, and at the same time expected to lay an egg per bird each day, and also come in or con-
siderable abuse if they purloin a few grains from the sown field, or a few tubers from the potato patch. Poultry requires just as careful manage-

## Feeding Young Chickens and

 Turkeys.Ieditor "The Farmer's Advocate." :
As the feeding and caring for young poultry As the feeding and caring for young poultry eminine portion of the household, a few sugges tions may be a help to someone who is trying to
make a success of the business, for it is a busi-
ness as much as storekeeping, or any other morchantile trade, and has to be attended to and looked after with intelligence or there will be takes the flock, it is so often attributed to had luck. To my mind there is no such thing as luck-there is a cause for everything, and we may reap a profit by the failures, if turned to good account in experience, and not sit down and whin-
ing say "What bad luck I have." Always keep the matto in view "Onward and Upward," even in the poultry business,
A good plan, instead of making a summer resort for the hens and their families in the backon one or all sides, so the young chickens can get in and feed to their heart's content, leaving the older ones out. as they cannot get through between the slats. The top may be put on with
hinges, to be convenient in putting the feed in This can be set anywhere desired, and moved at almost any time, the making of it is only a fow minutes work. Fnough feed can be put in these in the morning to do all day, Have it large enough so that a long-necked turkey cannot reach
the feed. For watering them fill a kog with water having a tap or plug, so that a little water will drop into a shallow pan and they have good drinking water and no anxiety or fear of a The same plan of feeding m
oung turkeys that are kept with the that only enough feed should be put in that thiey will eat up clean. I prefer to let the young be raised with less work, grow faster, and are not in so much danger of being over-run with lice. Feed when young with dry bread crumbs and rolled oats mixed with some sour milk curds, to be up rather fine. Have never tried shorts, but up rather fine. Have never tried shorts, but was better, not causing so much diarrhoea. Oat chop sifted is not bud feed for them, mixed a little moist. Tbey drink a lot of water and if
given regularly will do no harm. If they are fed twice a day, they are not apt to stray too far away. Like some young people they think far away fieids look green, but if given contentruent and en.oyment near home, the far away ounce of prevention is worth a pound of cure Lambton Co., Ont

BROWN EYES.
HORTICULTURE.

## Blasting Holes for Tree Planting.

 Editor "The Farmer's Advocate.In reply to your enquiry-regerding the re ults of planting fruit-trees in holes blasted with stumping powder, will say that on May 21st,
1912, the Canadian Explosives Limited, Mon treal, gave a demonstration of blowing holes with treal, gave a demonstration of howing holea with
stumping powder for tree setting, at my farm


Poultry and Fruit Go Well Together.

Immediattely following the demonstration I set the holes for them with stumping powder, using about one-quarter of a pound per tree. I found ficial in the growth of the trees, as a great many trees made growth the frrst year, of from ten to fourteen inchos, and, as far as I know, all the
trees are living. The demonstration was dence.

I have jusi finished setting two hundred and twemtyrffive assorted apple, pear, plum; quince, stumping powder
think there have been a few others who have used the stumping powder in a small way since, ut sor among the not seem to have become popKings Co., N. S

## Co-operation in Fruit Growing.

It might seem strange in an enlightene be driven where, when rightly applied, proved a principle of striking and lasting benefit. Co-operation and the more desirable methods of putting it into practice in the growth and sale of fruit, is in
brief the outline of a fifty-page publication by A. McNeill, Chief of the Fruit Division, Depart nent of Agriculture, Ottawa. With the market ing of the present growing crop in view, it deerves a wide circulation, and an early reading
In another branch of farming, Mr. WrNeil points out, that the Nort West Grain Grower' Association bids fair to revolutionize wheat sellIng.
In fruit growing under the old order of things, the trade and trade conditions fell into the
hands of groups of dealers from whom the grower receives for his fruit little more than actual ex penses. So unsatisfactory were the results, that to beame no uncommon thing a few years ago,
to see splendid orchards choppled down for firewood. Nova Scotia and Ontario have been the scene of the most marked progress, through the adoption of co-operation. But it is worth remembering that in the judgment of Mr. McNeill, chards in Ontario, has been quite equal to the increase in the number of new trees planted in arger areas, under perhaps more favorable con ery rapidly, but the 1912 a blanting seriously affect the market outside the Province. Except for home use, or a local market, the author doos not recommend orcharding at all, except where co-operative methods are adopted
Under the new order tie fruit-growing ares restricted, but the size of orchards is increased Orcharding is commercialized, and the extraordin the country receiving $\$ 2$ of men in one part o while in the next township lowed to rot under the trees. The small ar chard as a side line has not proved remunerative and with co-operative methods, Mr. McNeill nocommends a five-acre orchard on every farm in
It is pointed out that there
in co-operation and one of these in failurea rose out of regarding it as an isolated move ment to secure a few more dollars than the grow it as a benefit society or friendly of regarding Few Canadian co-operators recognize that operation is an entirely new method of doing
business. It is not merely a modification of an business. It is not merely a modification of an
older method, but something founded upon a different if not antagonistic principle. The prevail ing system of marketing is founded upon competition, the practical motto of which is, "Every
man for hinself." The natural result of this man for himself.". The natural result of this
is, that a few individuals receive most of the prizes. C. R. Fay, in Co-operation at Home and Abroad' defines a co-operative society as " an as sociation for the purpose of joint trading origin-
ating among the weak and conducted always in an unselfish spirit, on such terms that all who ship may share in its rewards in proportion ther the degree in which they make use of their as sociation." Individual growers and buyers can
not be held altogether responsible for the dis not be held altogether responsible for the dis
abilities under. Which the apple industry labors It is the system under which they are working that is most at fault. It offers at every turn incentive to untruthfulness and misrepresentation
It places in the hands of unscrupulous grower and unscrupulous buyers an effective instrumen men to conduct a legitimate business. Indeed this fraud in the apple business became so serious in Canada that it necessitated the passing of th Fruit Marks Act, now merged in the Inspection an of the growser evilis.

Even if there were no misrepresentation
tween the buyer and thie grower conditions under which the buyer works, he the obliged to pick and pack the fruit and bring it incurred by co-operative' methiods. Under 'the present wasteful competitive system, it is not too much to say that from 50 to 75 cents is added, apples before it leaves the shipping station of dealers are not particularly anxious to change this if they could, so long as these additional charges are uniform in the whole trade, since each all max shift the buriten as his competitor, and or the consumer. If the either the producer ship to the ultimate market on his own account the competitive system of marketing accumulates upon the fruit a number of charges, some of them
perfloctify leggitimate, others quita iunnecessary, or, if necessary, exorbitant. But whether these charges are right or wrong, the individual ship per is helpless. He has no way of investigat d
a more economicel mothods substitute as a remed a more economical method of picking, packing and
marketing. They also take away most of incentives to fraudulent packing and marking. The particularly that can be effected will be noted more to direct attention forlows. Here it is sufficien does not consist in supplanting one person another to whom a lower fee or less wages is paid. It is a method whereby one man without ing done by methods do not propose to make too, co-operative law or rulle. They simply take away the presen incentives to dishonesty. The aims of co-opera (a) applied to the fruit industry, are :
sible from the producer to the as directly as pos (b) encourage the best meth
(c) To encourage thrift in the fruit grower, and economy, intelligence, "enterprise and honesty (d) packing, grading and marketing of fruit growers to establish a comsible for number of smal will be a guarantee for tracts. advances on products in the process of being mak It is essential that each member of a co-opera cess or failure of the bear in mind that the sucthe combined efforts of its members, in upon every possible support to the movement. The ultimate success of co-operation depends largely loyalty of the association and enthusiastic sumed that the leaders of the movement is as section, are men of greater executive ability and better training than the average grodver. Such
men are capable of doing many things well. But at the same time every member must have his gives everyeated with the thought that unless he eaders are necessarily assistance the efforts of the part of each growers, earnest endeavor on the trained leaders, the success of the movement in assured. One of the main charms of modern social life is unselfishness, but the or modern t. Co-operationss appear to have no place fo to eliminate selfishness and its success endeavor largely upon the extent to which this depends plished. Have by-laws and regulations by all means, but it should be understood among the than can possibly be a higher code of morality operative methods limit the dividends that Co In paid to capitar and exclude 'shane vating In ordinary joint-stock companies, the influence ed, so that the rich hecome richer money investing selfishly, through the power of appropriat ruits of the labors of others, the unearned in natural resources that created by society, and the natural resources that in justice should be shared distributes wealth in proportion to the just earning of each worker, prevents the accumulation esources.
Those who are in closest touch with the Canmost at the present moment is wise is needed each locality. A few men at least in each neighborhood are fairly well grounded in the soch
ia! problems that agricultural district there is a wealth of know ledge and public spirit unoryanized, that mowems of that particular locality. to the probs Management and Control -Tho principles
theless co-operators experimented for many years before evolving them and acting on them years are thce. Perhaps the main reasons for this fundamentally opposed the fact that they are methods.
they are partnerships associations, whether are formed for the purpose of securing dividends tive associations are formed company. Co-opleras o4) securing dividends through the the purpose but for the purpose of benefiting the industry, Joint-stock companies, banks, looan associl tions and business partnerships are essentimall autity of the shareholders take little great ma jority of the shareholders take little or no part are essentially democratic. The management is in the hands of the members. In ordinary business associations voting is est moneyed interest control the affaits the larg sociation. In co-operative associations each member has a vote and no member more than one tration To still further guard against the concenew men, no proxiee In commercial or industrial
is placed upon the amount of remerns no limit ceived by capital, and capital is employed for
the sole purpose the sole purpose of securing this remuneration in sociations the amount that is earned by capital is as strictly limited and as definitely stated becore it is enguged as the wages of employees, and dividends, but for the the purpose of securing business.
In competive business, capital is master a

Canada's Fruit Crop.
ust been issued by the Fruit Division of has Dominion Department of Agriculture. The winte small and tree fruits latter part of the 1912 season of growth the excellent, but in some cases growth continued too ate for safety. Telegraphic reports from the dicate that tiruit districts of Ontario would infrosts, except perhaps on the north by the May Ontario, between Toronto and Hamilton Lake then only in small fruits, but it is safe to say ly estimated until some time frost cannot be fulthe whole the weather conditions elapsed. Upon erally have been good, but it must not be for gotten that complications may arise any time be ween now and harvesting. This is partic cherry crop, which promised last reference to the large, but was serlously injured by to be very cipitation, especially in Eastern Ontario, ketwee he growing and harvesting months.
Apple crop reports are most optimistic. In time the report was written, the bloom at th vanced to show that it was especiolly heaty ad an excellent showing has been made in Quebec and the Maritime Provinces. The season ha ricts two weeks earlier than usual in many dis well. Tent caterpillars The pear-growing sectio British Columbia report condition Ontario and inter killing is reported. In the favorable. No vinces only a medium pear crop is expected. The Plums have andoubtes a heavy crop. rom the late spring frosts suffered much injury is prolific, and it is not improbable that a suf medium, if not of buds will be left to make medium, if not a large crop in Canada's plum dis
trict. British Columbia will have a heavy crop. Peaches promise the heaviest crop on record Southern Ontario. Fall and winter condi tons were practically good and the spring frosts appear not to have done any serious injury Cherries, owing to favorablish Columbia. ise a bumper crop, although some slight injury may have resulted from frost.
Grapes wintered
ge, promise antered well and if frost does not dam age, promise a big crop, and all small fruits are No new insect is offering The aphis is likely to be troublesome in most sec ions.
Th. The event of the year, though it is confined to comparatively small portion of the country, is ges of this insect this spring are fully ravous as last year, and in ing are fully as ser-
and parts of New Brunswick reports indicate the infestation of these insects, is a very
grave one. The warm weather early in the season caused the eggs to hatch and the trees to leaf out rather earlier than usual, with the re
sult that conditions became ideal for the development of caterpillars
When stringent remedial measures have been
dopted the damage has not been so great, but ither through ignorance of these means of con trol or through lack of the necessary equipment, many growers have been unable caterpillars which has taken place during the last month, and in these cases much loss has been sustained.
Even at this date, if the trees are sprayed
with a solution of four pounds of lead arsenate (or 6 ounces of Paris green and at least 12 ounces of lime) to 40 gallons of water, and the
trunks banded with "Tanglefoot," much will trunks banded done to check the spread of the insects. All tents should be destroyed, preferably towards. Ane cool of the evening or in the morning when
the caterpillars are within them. Only concertthe caterpillars are within them. Only concertnfested neighborhood will bring relief. Wild in old fence rows near the orchard or in uncult1ated land.
Mice have not been bad during the past winter,
but protection is necessary each year, as their ut protection is necessary each year, as thei ravages are periodic and no one can tell when a
serious outbreak may occur. Weeds and rubbish serichs hatbors them should be destroyed.
Canker is reported from Nova Scotia and Scotia and Quebec.
Fruit prospects in the United States and One correspondent says in the report "Markets in 1912 were no good for apples. Threquarters, of the crop was commenting on this the report says
" This correspondent must be considered as speaking only for a very limited area, in giving the
quantity of apples left to rot, yet the trution re-
mains that throughout Western and Southern Ontario in 1912 large quantities of apples were sold

First and reasons for this are not far to seek. First and foremost was the complete breakdown the iuception of the apple trade, have been the re cognized means of disposing of the crop in On-
tario. This failure of the itinerant buyers to appear upon the ground was caused partly by the vances which they had always done in former years, leaving these buyers without money to fi-
nance their purchases. Second, even in the case of buyers having funds, the co-operative associathe ground especially in the better apple districts leaving only the inferior orchards for the outside of many of there was a distrust in the minds condition of the apple market. The net result comparatively few large orchards and where the orchards for the most part are very poorly cared
for, no buyer deemed it worth his while to visit them. Canadian apple dealers, with capital of
their own, preferred to deal directly with the cooperative, associations, where they could purchase
large quantities of fruit of uniform grade, and with the grade marks guaranteed. It is not a all likely that any buyer with capital of his awn
to risk will, in the future, care to handle the es, of the ordinary farmer engaged in mixed farming. With individual selling it is not pro-
bable that these orchards will ever again become really worth while.
The remedy lies in co-operation among these small orchardists, which would result, of course,
in better care of the orchards and an absolute cation of Bulletin No. 38, "Co-operation an Fruit Growing,' of the Dairy and Cold Storag commissioner's series, is limely. This buleth formation specific information with reference to the the general principles which underlie their successful operation. It points out how these small orchards may be handled successfully, proving not only good money-makers but, at the same time.

Bulletin No. 38 may be obtained free on aplication to the Publications Branch, Department Wairy and Cold Storage Commissioner's Branch

## Growing Cucumbers.

Michigan agricultural lisaflet, profitably, says a W . Postiff, re-
quires a location near salting station, and where enough help to do the picking can be secured. If planted on soil humus, the yield may be shortened unless rain in if planted on heavy clay August and September in a wet year from the soil becoming hard and packed, caused hy tramping while picking the with humus or clay loam that is well supplied satisfactory. If it is tile drained, so much the better for at picking time, one must get on the
ground to pick no matter how wet the soil may groun
be.

A clover sod plowed early, worked down and
arrowed oecasionally until planting time, makes a good seed bed. Timothy sod handled in the infested with also suitable if lit is not too badly tended for cucumbers s should be plowed early, and kept well worked till planting time. Such It helps rid the soil of weeds. Keeping the the seed to germinate, no matter how dry the weather may be at plantling time. Early plowing and frequent harrowing will put the soil in and bake after every rain. It will become loose mellow and friable; rain falling upon it will drain away, leaving it in practically the same
condition as it was before the rain, while a rain upon freshly plowed ground is quite thile a rain cause a crust to form. If seed has just been planted, or if the young plants are just up, such

Early plowing and frequent harrowing makes the plant food in the soil more available, and able to use it.
Cucumbers are not hard on the soil, but to They are quick growing plants, and have not grower afford' to have them do so. The thing oo do is to provide them with an abundance of plant food so that they may grow, as it were,
at high pressure. On the average land, they should not follow sugar beets, cabbages, potatoes received 'a liberal application of marn-yard manure or commercial fertilizer.
No fertilizer material gives better results than may profitably be spread broadcast and plowed under, but if the supply is limited, it will we most economical if applied in the hills.
Unless manure is to be used in the hills, is necessary to mark the rows. Six by that feet is the ordinary distance when planting in hills is practiced, and if it is desired to cultivate both ways, simply mark both ways and plant vet is to be used in the hills, mark lin the same way,
but the rows six feet apart will have to be furrowed out with a walking plow. Throw a Corkful of manure in the furrow at each intersecpacked the manure with the feet or the back of the hoe. The manure should be put in the hills as early as possible, but in harrowing the soil after they are made and before planting, care
should be taken not to entirely fill the furrows so as to obliterate the rows.
When a large acreage is grown, the practice is to double furrow the row, that is, plow a
dead furrow every six feet. In this furrow distrinute the manure 'with a manure spreader,
using the attachment to narrow up the discharge. Cover the manure by plowing a back furrow upon it. Roll as soon as possible, and
drag the ridge with the rest of the field, dragging planted in hills upon this ridge or a garden drill may be used, and a continuous row sown. There should be a plant every two or three inches, and
these should be thinned to a foot or eighteem these should be thinned to a foot or eighteen beetle is over. A continuous row has some advantages over hill planting, but if the ground is
inclined to crust, the young plants will have more difficulty in breaking through than if they were planted in hills. The ground is more evenl
occupied, and the roots are not so crowded Such a row is also easier to pick especially if are placed at right angles to the row. Cucumbers should be cultivated to destroy weeds, and able for corn will do the work, but the teeth hould be set more shallow for cucumbers than
It is better not to work too close for corn. It is better not to work too close to
the plants with the cultivator. and if the soil
crusts and there are weeds in the hills, they will
need one or two hand hoeings. Maintain a dust Boston Pickling, Chicago Pickling and Snow's grown under contract asually producing their cucumbers in clustars. When cucumbers are grown to be sold direct to the consumer or to a retail grocer, some strain of the lific variety 'which yields fine, straight cucumbers but which are a little too large in diameter to be suitable for bottling. This is also a good early to krow when it is desired to produce early "slicers." Slicers are the large o

Some of the Long Green strains will produce "slicers" of better quality, but not so parly in the season as White Spine. They are freer from grown, they will 'compare fevorably with wot ouse cucumbers.
Usually cucum
d pickin cucumbers are planted about June 1st the first of August, depending part of July or ings will hardly. The first two or three pictvery necessary to remove them for the but it is the vines. The fewer the cucumbers that are vines 'bear. Vecome full brown. the better will the bad effect it has upon vines to allow the cucumbers to become over-grown or the injury that tearing and breaking the vines. In average Letween weather, forty-eight hours may intervene seventy-two hours may not be too long. One acre of vines that is kept well picked will pronet profit than will two acres of as equally good ines which are only indifferently picked.
There are three or four insects which feed on cumber beetle vine or its fruit. The striped cucumber beetle (Diabrotica vittata) attacks musk-
melons and early planted cucumbers, but does not work extensively in the main or late crop plantings. Most growers plant four or five allows the beetles to they desire plants, which the stand. If the beetles work without ruining vines may be dusted, preferably while the dew is
on. with nine parts air slacked, or still better. on. With nine parts air slacked, or still better,
hydrated
$l i m e$ powder. Paris green should not be used, as it may burn the vines. Coating the plants with a spray of six pounds arsenate of lead paste to
fifty gallons of water, makes them distasteful to insects.
Thare is a plant louse which attacks cucumber stroyed by a sucking insect, so cannot be debe killed by a contact spray if poison, but must vines and ing the vines thri'ity is also a decided help, since the louse always prefers to feed on sickly and stunted hills. Eight pounds of whale oil soap to forty gallons of water makes a good spray.
usually the enemies of the louse will hold it in heck. Downy Mildew ungous disease (Plasmopara cubensis) which is all, like the one of 1912. It is first noticed mall brown spots on the oldest leaves. These pots increase in size until nearly the entire leal affected, becoming dry and doed. The injury
results from the plants losing more or less their foliage. Spraying with a dilute solution Bordeaux mixture, made of two pounds o copper sulphate and four pounds of lime to forty allons of water, will control the disease to some extent, but the treatment must be thorougg mence spraying when the vines have rumers a oot long, and spray once a week until it is im
possible to drive through the rows. In . average season, the loss from the mildew, has not To make a success a spraying is not practiced. he following conditions: Fit the ground thoroughly, use enough well rotted manure 'to
produce thrifty, strong-growing vines plant in tensively rather than extensively, and aim clean plicking to prevent the forming of large

## Fruit Growing in Alaska.

At the Sitka (Alaska) Experimental Station the cultivawherry has been produced by crossing plant. The new variety appears to be well adapted to the climatic conditions of that region and gives
In the apple orchart was years ago, ripe fruit was produced for the ten time in 1911, possihly due to the exceptionally
of that year. The fruiting varieties were all of Cherry and plum trees continue to prove unsuitable to the prevailing conditions; but curare represented by a number of varieties. Potatoes, cathbages, caullifower, lettuce radishes produce good crops of high quality, not only in the coastal region of Sitka, but also at the interior stations of Rampart a
Fairbanks.

## FARM BULLETIN.

Circumstantial Evidence.
Mr. Klugh's article on hawks in the issue of May 27 th caused me some uneasiness, and after stroying some valuable friends. I he see been, "The hawks which commit depredations in the hen
yard are very seldom seen. They are not birds yard are very seldom seen. They are not birds
of the open country or given to sailing in the air, but make a sudden descent from the cover of the .woods and a sudden return with a chicken." The hawks whose housekeeping I have past four years are given to soaring, and may be seen circling in the skg almost any fine day. I am not sufficiently familiar with hawks to know evidence seemed convincing against the ones iI have been persecuting. There is a tree on neighboring pasture farm that has had a hawk's nest in the top of it since the memory of man
runneth. When we moved in four years ago the hawks that were occupying that nest were cer tainly chicken thieves. They came just as Mr Klugh describes, making a sudiden rush and
oapturing a chicken. Before 1 got after them oapturing a chicken. Before I got after them
they had taken at least a score of broilers. I saw them in the act, but they were always to sharp to come within range of the shot gun. After getting a chicken they flew straight to-
wards the nest, and there is no doubt that the wards the nest, and there is no doubt that th were to have any chickens that yoar, thtis pair
of trobber barons" of "robber barons" had to be routed out, and getting a rifle I shot up the nest. As some of
the bullets sent feathers flying it was quite evident that the young hawks were at home, and made a thorough job of the work of destruction couple of days, and no doubt protesting for the application of the Mosaic law, by which the sins of the fathers are visited on the children. chickens that season. Next wo lost no more occupied again, and, acting on the very general belief that birds come back to their old nests, decided that our enemies of the previous year taken, but remembering that an no chickens wer tlon is worth a pound of cure, I sent sever ounces of lead through the nest when the youn een stirring. reached a size where they could be ly function. but I am inclined to think that it was not only unnecessary but a mistake. The havks that have occupied the nest this year
have been particularly noticeable for their soar ing, and they have never come near enough to dence is all in their favor. As nearly as I can judge from descriptions, they are of the beneficial kind that are commonly called hen hawks. After reading Mr. Klugh's article I tried to find ou and learned from C. W. Nash's book. on The Birds of Ontario, that "Cooper"s Hawk," the worst chicken thief in the lot, very often takes
the nests of other large birds instead of build ing for itself. I am now inclined to think that the occupants of the nests four years ago were a pair of these destructive birds, and that since
then it has been occupied by harmless varieties
 proof that circumstantial evidence is not to be relied on.
"What if my house be troubled with a rat, asks Shylock, and there is only one answer. The at must be killed. This spring there has been
veritable plague of rats in this district. Every time old boards or rails are removed or a stack oottom cleaned up, the dog has a few seconds of excitement killing rats. This morning a manure pile yielded itwelve, and one big wily one
got away. A barn that was moved in the got away. A barn that was moved in theor a couple of weeks ago yielded an incredible number. Over three hundred were killed, when the foundations were shifted. As ats are dirty, destructive and disease-bearing
something should be done to stamp them out when they become so plentiful. This year we are fairly free from those winged rats, the sparrows, because an active boy with a rifle has

Santa Clause visited wo lost Christmes As no other birds have been interfered with, they are unusually plentiful in the orchard and among the
shade trees. There are orioles, blue birds and shade trees. There are orioles, blue birds and
song sparrows all about the place, and I understand that the sparrows are accused of driving
away ' these native birds. Mistress Jenny Wrent is now occupying a vacant sparrow's nest, and by the way, this has raised a question which I am unable to answer. If Mistress Wren's name
is "Jenny" what is Mr. Wren called ? And what does he look like? We never see but one at a time. That one is always either singing frenziedly, or popping in and out of the nest.
Is it Mr. or Mrs. Wren ? We are all anxious to Is it Mr. or Mrs. Wren ? We are all anxious to
find out. While working in the orchard this spring I noticed something in favor of the song sparrows which I have not seen recorded. I saw a couple of them very busy among the glass decided that they were eating the aphids This shows that it is a wise move to drive out the sparrows, and give our little native friends a chance

This week we had a visit from Mr. Whale the Fruit Branch. They, were making a round and I was delighted not to be able to provide them with any specimens. They were surprised, however, to find how severely our orchard had been affected by the frost. Yesterday I had a
letter from Mr. Whale in which he said that orchard had been damaged more than any they had visited. We had a wonderful showing of
blossoms, 'but' it hardly seemed worth while to blossoms, 'but it hardly seemed worth while to
give the third spraying. We gave it, however,
fact that it was his custom to haul out the put a thin layer on the snow, around the trunks of the trees. This wauld keep the snow from melting, and his orchard would not bloom until a week or two later than other orchards in the
district. That reminded me that a couple years ago I noticed some trees in a neighboring orchard that were in bloom a couple of $i$ weeks after all the other blossoms had fallen off. asking the cause I learned that a Bnowdrift
several feet deep had gathered along the fence under these trees during the wing the Thes things led me to believe that it might be a good idea to do something to delay the blossom-
ing of the apple trees in the spring. I shall try to find out about it before next spring, for we have certainly been hit hard this year.

## Road Management.

Many roadmakers make the serious mistake of ance. A United States bulletin on sf Repairs and Maintenance of Highways," treats of the management of country roads in this manner
The repair and maintenance of public highways has shfflered greatly from poor admuinistrative routine character than the work of new a more tion, and the failure to recognize its importance has in the past led road officials to subordinate that at just the point in work. It would seem that at just the point in road operations where, ed it has been absent. The only successful attempts at systematic repair and maitenance attempts which have
been managed with
skilled and strong
central control. Almost without exCeption, those undertaken $S t$ at aid in any form for road building have in the annual re ports, reiterate moving the respon sibility of repai and maintenance o such roads from In a $n^{2} \mathbf{m b e r}$ of
States this change has been made, have the result mediate
Viewing publi oads as a whole divided administra tive units are con picuous. The num have more or less authority and peroad matters over 0 me sections in the country is ex traordinary. There 000 such road United States. 'The term of office o hese men is but a year or two, and
rotation in th e office ten A fund amental
difficulty with the nay be clean. The heavy ony eating apples they explained by the fact that part of the orchard was on low ground, and none too well drained. maples, while the south side is a thick row of
sun. As the grosed to the sun. As the ground was well worked last year and manured again this spring, it is probable other orchards, and in that way more liable to damage by frost. As nearly as I can find, by Davis and Red Astrachans were killed. Ben Spys, being later in hlossoming, did not The of severely, and there seems to be a scattering of fruit on the Baldwins. Anyway, it is not season. The experience has broughtning this news that may be worth considering. A farmer hao used to live some miles from here, always had apples, even when his neighlors lost theirs
through spring frosts. This is attributed to


Easily Satisfied-That's All He Wants
ganization of road systems:which must handle repair and maintenance appears to be the failure quires thize that road work is a trade which re necessarily be obtained at for road work must community. As rule, road officials are of the and long enough to mature their experience funds. Repair and maintenance operations upon all public roads necessarily extend over a period of such operations, a comprehensive plan for several years is necessary. The work for each season must be carefully laid out in advance as far as
possible. When maintenance work has been seriously undertaken under such a system it has responded with gratifying results. Whatever the civil subdivision may be which constitutes the administrative road unit, a good road map showing all the various classes of roads is desirable.
low in an aututtistrative district where the
mileage of roads is sufficient to warrant the conmileage of roads is sufficient to warrant the con-
thuous employment of a man who is either a hiose interest is primarily in road work, and Who has charge of road matters in his district. Where such a man is employed from year to jear he can able to plan with confidence systematic improvements, which must wait for successive annual appropriations. Good business organiza-
tion in road work demands an adequate booktion in road work demands an adequate book-
teeeping system from which unit prices for varitue classes of work can be easily derived. Too frequently road accounting presents an accurate
list of men to whom money has been paid for list of men to whom money has been paid for
material or labor, lut from which no estimate material or labor, but f
of the cost of future re
work can be established.
It will be more ahd more necessary in the future to study the service of verious roads by
cocurate traffic cenuses. From the investigations that have already been made, it appears
that for any civil subdivision a relatively small pat for any civil subdivision a relatively small
percentage of all the roads carry nearly all the percentage a al the roads carry nearly all the
travel. In France a traffic unit called the
"collar" is used. The "collar", is a single hors "collar" is used. The "collar" is a single horse reduced to "collars." including automobile traffic. The "collar" has not been adopted in the United
States as a traffic unit. It is unfortunate moreover, that no agreement exists among road men at present as to the detailed method of mproved road draws to itself increased traffic. To determine the future use of roads, it will be necessary not only to know the travel passing
over the road before improvement, but alsa to lnow the increase of travel which is likely to be diverted to the road when it becomes improved.
it is undeniable, moreover, that travel upon oads in general is Papidly increasing numericaly in tonnage and in mileage of travel radius to enable road men properly to relate the first construction eosts to probable maintenance charges. There should be an ample "factor of
safety" in road design to allow for increased
Under a competent and continuous administration thefe are many details which can be
worked out for road betterment, which are otherworked out for road betterment, which are otherave the location of deposits of a the road map and the 'quality, of each deposit carefully
necorded. The cane of all road machinery should ecorded. The care of all road machinery should be in competent hands, and it should be housed an
ready for use when the season commences. A eady for use when the season commences. portant roads. can be undertaken' with an stablished profile towand which some work is directed each year. It is quite probable that bridges on highways is partly due to the unwillingness of short-term road officials to spend a considerable mount of money in one place. Under a continuous administration some perma-
nent culvert or bridge work may be undertaken from time to time along a plan which contemplates the final improvement of all such struc cores. Concrete culverts and bridges require al
most no maintenance charges, whereas wooden bridge floors and culvert bridge floors must be enewed every few years.
he work should be organized labor is adnoter, and experienced men developed and retained as far as possible. The foreman of a repair gang
on road work should have sufficient knowledge and experience to justify spending his entire time in supervising and planning the work without of thoroughness in details, such as complete cleaning of mud holes, sufficient material, swift repair of water-breaks, etc., can not be over
amphasized. There is always enough necessary planning and supervising to keep a good foreOn the continent of Europe, where road resuccessful, it has been the practice to issue printed instructions covering the smallest detail plan to require reports of work done, and yuanometimes daily. Roads are frequently inspect d, and accurate estimates of all quantities Larger jobs of repair are usually more adwork must, however, be done under competent in spection and with proper plans, prefle and writ-
ten specifications. When road work is in contindous charge of one competent man, it is possible uhich fits him to draw up proper specifications, a
a oid the repetition of mistakes, and benefit by
the experience of other highway engineers. With
practice man to familiarize himself with the best matters and cannot be expected to educate him self by reading road journals or attending road been given sufficient consideration in planning road finances
lations between firstge is needed of the actual relations between first cost and interest, and of the future investigations for determining the road. In road to be built it will be necessary to provide for larger increases in traffic and carefully
balance the advantages of balance the advantages of long-lived road surfaces, such as concrete and brick, with. low main-
tenance costs, against the lower-cost road surtenance costs, against the lower-cost road sur-
face, with little or no factor of safety and immediate and high maintenance costs.

## A Star Fakir

Editor " The Farmer's Advocato
I feel it my duty to inform your readers about a fakir who is going about just now imposing on farmers, claiming to be an employee was carrying a field-glass and Survey Co. He tending to be a very busy man among the stars. He was of medium height, with black hair turning grey, and long dark mustache. Has been in Mono and Adjala Townships for a weelk or more giving his name as a nephew of Arthur McCars ton of Mono. If any farmers or townsmen meet with this character, let them not spare the sole leather as long as their wind stays with sole
them.
Sim
Simcoe Co., Ont. S. McCULLOCH.

## Trees as Fence Posts.

Editor "The Farmer's Advocate,"
I notice enquirers in "The Farmer's Advo cabe" re using trees as posts for wire fence. I trees. I put a strip of $2 \times 4 \times 5$ feet fonce on cedar or its equivalent, and fasten same to trees by two six-inch spikes, driven through a hole in an elongated :washer made from old wagon tire, the washer being slightly curved towards the tree and full width of the strip for preventing the strip from splitting by stress of wire, and as the tree grows, the washer being
strong will draw the spike out and will make a strong will draw the spike out and will make a
permanent and tasty job. Oxford Co., Ont. N. SILVERTHORNE.

The addition of small quantities of quicklime io field and garden soils, according to a British but large quantities cause an initial depression in the numbers of bacteria and the destruction of a certain protozoa, and a cessation of all biological process. Conversion of the lime from
the caustic form into the carbonate, or combination with soil compounds, is followed by a great increase in the numbers of bacteria and increased ammonification of soil compounds. The length of the period during which the bacterial growth
is suspended, would appear to be determined by the quantity of lime applied, the initial reaction of the soil and the amount of organic matter

## .

Few race horses last as long as Caper Sauce, and none have equalled his record of winning the same race for eight consecutive years. He
is now in his eleven-year-old form, as sound as is now in his eleven-year-old form, as sound as
a bell, and on Wednesday last galloped home a the Woodbine with the Whitby stakes for the eighth consecutive time. He is a Canadian-bred
horse, having been foaled the property of Jos. Seagram at his Waterloo stahles. He 'has changed owners three times, and is now the
property of Sol. Mintz, of Hamilton. His winnings have been spread over nine years and more, and have been very consistent. He pulled down
his largest haul at eight years of age, when he won, all told, $\$ 4,605$. His grand total winnings won, all toun, $\$ 4,605$.
E. A. Howes, B. S.A., a graduate of the On-
tario Agricultural College, in 1911, and afterwards connected with the Dominion Seed Branch, position which he left to become Professor of Reno, is to return to Canada, having been appointed principal of the Provincial School of acriculture at Vermilion, Alta. Professor Howe was for four years prior to his graduation from the O.A. C., principal of the
solidated School, Guelph, Ont.

A Better Farming Special in Ontario.
Last week there started out through Western Ontario from the Ontario Agricultural College
and over the rails of the Canadian Pacilic, two and over the rais of the Canadian Pacinc, to place where stops of a day's duration are made to allow the specialists in charge to show the
people by actual demonstration few of the people by actual demonstration faw of the
thousand and one things which make up " better farming." "Farming specials," are not strictly speaking a new departure, but they have not as yet been worn threadbare, and all those within should lay aside the work in hand and spend a day $/$ with the train. If it is scheduled to stop in your district you will already have received, or will very soon receive through the mail a uous places as to the exact time and place of the demonstration. The coaches, when visited by a representative of "The Farmer's Advocate" in London last Friday, carried three Yorkshire and
three Berkshire pigs, three Leicester and three three Berkshire pigs, three Lecester Holstein, Ayrshire, a Jersey and a Shorthorn cow, and a cross-bred beef yearling, a Percheron and a Clydesdale fily, together with poultry and poultry appliances, dairy demonstration apparatus, facts, figures, and equipment on
drainage, and examples of weeds, grains, and grasses together with comparative ylelds in the case of the latter two. One or more specialists The rain is meating morning meetings have not been very well attended. Afternoon and evening sessions are most in favor. This is so no matter what the meeting
People do not very often turn out in a body bePeople do not very often turn out in a body be-
fore noon, but in this case if the train is in your sectiqn no matter whether there is a crowd in the morning or not it will pay to visit it then. In many cases more of the information which is wanted on the problems confronting diferent in-
dividuals may be threshed out personally with the men in charge to even better satisfaction than when a large crowd is present.
farmers the centre of a large city is to meet larmers the centre of a large eity is the poorest
location possible. In these days of rush of work the train must be taken as closely as possible to the farmer. But if those actually engaged in agriculture were not as numerous as they might
have been there was a large crowd at the London have been there was a large crowd at the chindren and teachers in training at the normal school. The interest which these young people manifested must have buen very gratifying to the different
speakers and the ideas which they carried awny with them could not do otherwise than elevate their opinions of agriculture, because to know it is to like it, and they were given the solution of many farm problems in the couch the rising gener.
sojurn in the coaches. To reach, ation is one of the best works the train can do. The live stock is taken out of the cars at each stop and the various points of distinction in in apes demonstrated and explained to the crowd
in attendance, as they are comfortably saated on elevated seats carried along for the purpose. Thit is an excellent opportunity for live-stock onthusiasts.
The department devoted to the products of the field contains sammples of varieties of grains in
the straw and threshed. Such good varieties as mammoth winter rye, glant millet, Japanese panicle millet, O.A.C. No 72 oats, O.A.C. No 21 barley and many others being in evidence. The different yields from seed selection are interesting
Targe, small, shrunken and broken seeds wer used in comparison. The sields in buishels being as follows
 $\begin{array}{cccc}\text { Oats................62.0 } & 54.1 & 46.6 \\ \text { Winter Wheat.....46.9 } & 40.4 & 81.9\end{array}$

The results from seeding on six diferent dat week apart after the earliest possible time each year at which the land will work are elso vale able showing early seeding to advantage. The
following is the comparison in bushels. rain $\begin{array}{lccccccc}\text { Grain } & \text { 1st } & \text { 2nd } & \text { 3rd } & \text { 4th } & \text { 5th } & \text { 6th } \\ \text { Spring wheat. } & \text { 21.9 } & \text { 19.2 } & \text { 15.4 } & 18.0 & 8.4 & 6.7 \\ \text { Barley } & \text { 15. ...... } & 46.2 & 45.9 & 39.8 & 37.1 & 27.6 & 18.4\end{array}$

 Tubes are carried showing the comparative
yields of the various mixtures, and oats and barley are shown to give the highest yield of grain.
Annual and permanent pasture mixtures gre als xtures gre also

The poultry department contains 50 young
Weghorn chicks in a hover. Water troughe Leghorn chicks in a hover. Water troughe proved kinds are carried, and the tife ap tions for laying and fattening stock shown. For fattening, a mixture of butter-milk, ground óats
ground buckwheat, low grade flour and cornmeal
is recommended. chicks is given, as, follows : buttermily, chick leed, grit, hulled oats, wheat and alfalfa. And the laying ration advised is buttermalk, corn,
rolled oats, grit, oyster shell, alfalfa sid heef -
The drainage exhtbit shows the amount of evaporation from different types of soils under
difterent mulches. A clay-loam mulch loses 21.810 inches of moisture by with no ation, while the same soit with a one-1nch mulch
 pulch. In sand the evaporation with no muleh wo-inch mines with one-inch mulch, 2.996 inches, inches, 2889 Sinches. This proper and improper mulch at in angle, the latter at right former being made from tarmers, who have underdrained, Rheports 71 bushels, 24 bushels, oats 28 bushels, barley 10 bushele, fall wheat 20 bushels, spring wheat drained than on undrained land more per acre on straw on the drained soil is nearly double in an dises.
The dairy department carries meny charts thowing the value of cow-testing and charts records, and also his a number of dairy milk phances including milk and cream-testing outfits becomes vats, hoists, etc. Milk is shown as i traw, cow hairs, hay, road dust, and cow
These are only a few of the interesting thing weeds are shown, and the best mot most noxiou tion explained. Insect pests and their of eradica eection with orcharding are also a part of con chibit. A sufficient number of men are in questions of all who may visit and answer the lectures given on each subject are instructive the elpful in every way. Let the horses rest an and take some valuable recreation yourself, and tario Government have placed at the disposal Onthe farming public. Everything shown is practical, and farmers, their wives, sons and daughters should not fail to take advantage o
. N -
With the advent of the automobile and the parcel post, there is an intimate connection be coimntry, and city people are more directly henefited by such country road improvement tha ver.-United States Office of Public Roads.

Knowledge Comes, But Wisdom

## Lingers.'

Editor "The Farmer's Advocate"
In an editorial you unote Tennyson. "K ledge comes but Wisdom lingers," and you ad "Sometimes Knowledge seems to linger a cood while too." By this you mean that it is a long time in arriving, which I suppose is the usua interpretation of "linger" as used in Loclosley Hall. But it always gave me a different im pression, as much as to say": "Knowledge come (and goes) but Wisdom, once attained, is a per manent acquisition. Probably I am altogether wrong, but the
"Knowledge comes, but Wisdom lingers, And line individual shore,
And the individual withers, and the world 'is Kore and mor
ears a lise, but Wisdom lingers, and he Full of sad a experience, , movising toward the still

The second couplet seems to bear my con truction, and the idea is by no means contemp tible. I make the suggestion for what it is worth. WILLIAM $Q$. PHILLIPS.

## Closing Weak Banks.

The Monetary Times, of Toronto, quotes a subject of weak banks
"A weak baak in the financial system of any state has no more right to continue in business than has a weak bridge in a public highway The duty of the public authorities and of public oplinion in the one case is the same as the other.
Once an element of weakness has derelo defect in the structure is to be remedied without delay, so as to make it capable of bearing the full weight of its proper burden, or the thing should be closed up. The weak bank takes away legitimate business from the bank that is
safe, and doea injury to the business as a whole by spreading general distrust. It should, there fore, be put out of existence with no less expedition that we put out a fire or block up a.high-
way, or suspend traffic on a tumbled wridge." or suspend traffic on a tumbled-down Quite true; but who should have the tors as represented by the Bankers' Association or an outside 'Commission representing the
people?

Ditching Machine Repairs Still Dutiable.
It seems that the removal of the tarif on does not extend to parts purposes repairs for heevy machinery of this class the necessarily somewhat numerous and expensive the duty will be quite a handicap, bearing especially hard upon owners of the fifty or sixty have to compete with machines purchased duty free at a lower price. Representations recently made to the Minister of Finance have been me with the explanation that if parts of th culties would be experiemced by the Customs De partment in administration.
O. A. C. June Excursions.

The Ontario Agricultaral College authoritie have announced their list of excursions from the Friday
Lennox and Addington, Hastings and Count Wentworth.
Saturday, Ju North Grey, Lincoln and West and North Bruce Tuesday, June 17.-Haldimand, North and South Noriolk; Centre Simcoe, West Wellingtor Wredneaday Jun 18 - North and Wednesday, June 18.-North and South Bran Saturday, June 21
outh Grey, June 21.-Durierin, Centre and Monday, June 23.-Peel, South Perth, Centr nd South Bruce, East Hur
Tuesday, June 24.-West and South Si West Inesnay, June 25th.-Manitoulin Island

Adian dry, cold spring has prevailed over the Can
dian West. Most of the grain started, wut ha ports of its having been cut by frost in re said to be rooting well, however. In the It if growth has also been somewhat backward sinc he early spring, but mild weather at the end of May an
siderably.

The, fifteenth convention of the Canadian Forestry Association, for the presentation of orestry questions, will be held in Winn o uly 7, 8 and 9, 1213. Special attention will be given to prairie conditions. For program correspond with the Secretary, James Lawler

Questions and Answers. Veterinary.

Mare with Cough, Etc.
She coughs more atter drinking cough. when at work atter drinking than wrap bit with rag saturated with ourd, ar, end give her a spoonful of pine tar very night and morning.
2. I have two ewes with two lambs Letcester and Southdown. Would it be ise to keep one for a stock ram?
Ans.-1. Chronic coughs are very hard to cure. Olive her every morning 1
dram each of powdered opium and solid extract of belladonna, 1 dram camphor and 80 grains digitalis, with sumficiernt oll of tar to make plastic. Roll in thasue paper, and give as a ball, or dis-
colve in warm water and give as drench. Dampen her food wive as a water, and continue the tar on bit and In evening. any, but a pure-bred ram. Whise to use
arst result of crose the arst result of pure-bred ram. While the tsfactory, the progeny of the cross-bred

## Miccellancous.

## Mare Lost Foal

 I have a mare that aborted last fall, and this spring she does not come inseason regularly. I would like whether I should give her a physic to clean her out. Ans.-If the mare is run down in any
way, a purgative of aloes might help.
Would suggest that you Would suggest that you feed her well,

## a vigorous horse. Irregular cestrum may be due to disease of the ovaries,

 Line Fencing.which side should II rence on tine fenco, which side should I fasten wire on, my
side of posts, or on my neighbor's side? 2. Would I be allowed to put up bark Wire fence as a line fence? A. M. Ans.-1. It should not make any dirference which side of the posts the fence
is placed on, provided it is on the line. To allow of the work being done from your own side, the fence would be
stretched on the side next your own property.
fence Barb-wire is not lawful on a line for wire fence, where both parties inter ested are agre

Worms in Chickens.
What is the matter with 'my chickens First twist their necks right upside down. mopy, and then they
necks are affected, and die in time. Atats. -1 wish your correspondent ha or 1913 stock. I I judgens were 1912
of his letter they are the tone stock sometimes show symptoms simila to these when they are affected with in-
testinal worms. These can restinal worms. These can be gotten
rid of by giving the birds any worm powder, or a small dose of turpentine The same will apply to titurpentin
only it would smaller wound have to be given in probably quantity. The druggist
little chicks, it is proper dose. ittle chicks, it is sometimes case. With
indigestion, or if the chicks are hatched
that way, which that way, which is not uncommon, I am
inclined to believe it is hereditary
these, for which we can find no cause o cure. When a post-mortem examination was held, the birds appeared to be perfectly normal. Remove the droppings,
and use lime freely; also clean drinking water. Well water is common source o worse. The comm barnyard water is is a piece of cheming tomacci for worms size of a hickory nut. to a grown the nut, to a grown bird
W. R. GRAHAM.

## Gossip.

Eggs from prizewinning, heavy - laying, advertised in this issue by Geo. D.
Fletcher, R. R. No. 2, Erin, Ont. June 4the dates announced. June 4th.-John D. Duncan, Howick,
Que.; Ayrshires.
June 25th.-T. E. \& H. C. Robson, TlderTune 25th.-T. E. \& H. C. Robson, Ilder-
ton, Ont.; Shorthorns. At Shelbyville, Kentucky, May 27th, 102 head of Jersey cattle, for $\$ 37,385$, n average of $\$ 373$ The bull Noble Eminent Lad, brought the highest price,
$\$ 1,500$, purchased by E. C. . Texas, who also secured. C. Laster, of
Gipsy's Phow cow,
another Premium Lily, at $\$ 1,000$, and another show. cow, Noble's Carnation
Maid, at $\$ 950$ The average included
many calves. Four pure - bred registered Ayrshire
bulls, ready for service; four Ayrshire
bull calves, and three yearling Ayrshire bull calves, and three yearling Ayrshire
heifers, also two Jersey bull Arshire eifers, also two Jersey bulls and ten
registered Holstein callyeg registered Holstein calves, all from
heary-milking strains, most of which are
n the Advanced Registry, are advert tsed

York. If interested, see advertisement.
and write for further information. -
H. M. Vanderlip, importer and breeder Cainsville, Ont., informs Berkhire pigs. past season has been a record- breaker in sales, all the Berkshires being sold some time ago, and enquiries being sold coming. A choice iquiries are still just recently received from quarantine, and another importation is expected this month. These will place him in a the head of the Shorthorn herd has. alaced the imported bull, Royal Warrant, Crystal, sire of the $\$ 3,000$, by Newton master. His dam was by calf, BandVictor Royal. He is bred in the purple. tracing in a direct line to the great
Scottish Archer, and Gravesend. No better blood could be found. All the sold, but a grand bunch age have been by the good-breeding bull Chancellor's guarantees coming on. Mr. Vanderlip

## Trade Topic.

The prize list of the Canadian Central tion. The exhibition is to be held from substantial prizes 18th, inclusive, and tions. Cash prizes havered in all secfreight an anments have been mado to pay
 Write D. McMaho
ry, 26 Sparks it
Ottawa

JUNE: 5,1913
THE FARMER'S ADVOCATE

## Markets.

## Toronto.

review of Last wemi's anakets At Wet Torotio, on Monday, June 2


 moprriing I16 satite 68 hoge, carlonade sitherer's sterre oed heterer, at at to

 olty and Unien Stocok-kardid leat at the mon as follow

tho wota rocipipts of Hve stook at of 1921 more as followa

|  | Oity. | Union. | Total. |
| :---: | :---: | :---: | :---: |
| Oars | 194 | 285 |  |
| attle ...... .... | 2,007 | 8,862 | 4,869 |
| Hogs | 4,847 | 8,872 | 9,719 |
| eep ...... ..... | 1,001 | 336 | 1,387 |
| 1 l es | 1,269 | 23 | 1,500 |
| Horses .... |  | 18 |  |

The combined receipts of live stock at | cars, 8,582 hogs, 893 a sheep, 635 calves |
| :--- | and 75 horsess but an increase of 68 , attle, compa

Receipts of live stock at the two ma arge as for the corresponding week 1012. There was, however, just enough o. cause a good, active trade, at firm
prices. If there had been fifty carloads ore on sale, prices would have certain1 declined. Last year there were more attle being experted than at the present present existing in the cattle traie oronto. Heceipts of sheep, lambs, calves, and hogs, were scarcely equal to be demand, and this caused an active ant classes, and, in fact, the hog mar Exporters a little firmer.
d, huyer -On Tuesday, William Ho Chicago, bought 127 \& Company, Ohicago, bought 127 export steers as
lollow:
For London, 82 steers, 1,280 bbs. each, at $\$ 7.15$; for Liverpool; 45 teers, 1,200 lbs., at $\$ 7.05$. On Wed-
eesay. Mr. Howard bought 100 steers L.25; and for Livs. each, at $\$ 7$ to , 285 lbs . each, at $\$ 6.90$ to $\$ 7.15$. This aakes a total of 977 cattle bought for Butcherss.-Choice steers of expor
eights and quality, for local killing old at $\$ 6.90$ to $\$ 7.25$, and in one inof cattle seen on this for the best load
on on; good to choice butcher, $\$ 6.60$ to $\$ 6.85$; medium, $\$ 6.15$ to $\$ 8.50$; common,
85.75 to $\$ 6 ;$ choice cows, $\$ 5.50$ to $\$ 8.75$ to $\$ 6$; choice cows, $\$ 5.50$ to
$\$ 6.25 ;$ good cows, $\$ 5$ to $\$ 5.60 ;$ common 6; medium to $\$ 4.75$; choice bulls, $\$ 5.50$ Sommon bulls, $\$ 4.50$ to $\$ 4.75$
Stockers and Feeders.--The demand for the supply. Steers, 800 to 850 the
 $700 \mathrm{lbs} ., \$ 5.25$ to $\$ 5.85$; stock heifers,
50
lbs. each, Milks. each, sold at $\$ 5$.
milkers and springers were light all week, hoice more would have sold, as good to

Vanged from $\$ 50$ to $\$ 75$ each.

Ceal Calves.-The market for veal
calves was firm during the week, owing
to light receipts. Good to choice calves sold at $\$ 8$ to $\$ 8.50 ;$ medium to good
$\$ 7.50$ to $\$ 8$; common veals, $\$ 6$ to $\$ 6.50$ Sheep and Lambs.-Light rereipts of
sheep and lambs caused prices to be
Armer Armer than at the close of the previous
week. Sheep, light, $\$ 6$ to $\$ 8.75$; heavy
ewes and rams, $\$ 4.50$ to $\$ 5.75$; yearling


 weighed oars, and $\$ 10.10$ to $\$ 10.1$.
Horses. - There Horses.-There was a fair trade in
horsigs at the Union Horse Exchang Union Stock-yards, last week, but not carload was bought and shipped to Mont real, and several minor shipments to to
cutside points in
Ontario outside points in Ontario. The local
demand was not as large. Prices were about steady with our last quotations. horses, $\$ 150$ to $\$ 225$; express and wago horses, $\$ 160$ to $\$ 225$; drivers, $\$ 100$
$\$ 150$; serviceably - sound horsee, $\$ 45$ $\$ 90$ each.

BREADSTUFFS Wheat.-Ontario., No. 2 red, white
mized, 95 cc.
to
97 c c.,
outside; inferi mixed, 95 c.
grades down to 70 coc .; Mutside; inferio
nanitoba, No. northern, 99 e.c.; No. 2 northern, 970
No. 8 northern, 95 c ., track, lake port Oats-Ontario, No. 2 , 38 c . to 34 e ., out slde; 88c., track, Toronto; Manitoba oats
No. 2, 40 c. ; No. $8,881 \mathrm{c}$, like
 -No. 2, 90 c. to $950 .$, outaide, Beas
wheat-51c. to 52 c. , outside. Barley-wheat-51c. to 52c., outside. Barley-
For malting, $51 \mathrm{c} .$, to 58 c .; for foed, 48 e .
to 48 c ., outside. 593 c. ; No. 8 yellow, 58 fic., M Midland.
Flour-Ninety - per - cont. Ontario winter Flour-Ninety - per - cont. Ontario winter-
wheat flour, sold at $\$ 4$ to $\$ 4.05$; Mani wheat flour, sold at \$4 to 84.05 ; Man
toba flour-prices at Toronto are: Firet
phit phtents, $\$ 5.40$; second patents, $\$ 5$;
cotton, 10 c . more; strong balkers', 84.80 cotton, 10
hay and millfeed
Hay.-Baled, car lots, track, Toronto,
$\$ 12$ to $\$ 18$ for No. 1, and $\$ 1 e$ to $\$ 11$ Straw.-Baled, car lots, track $\$ 9$ to $\$ 10$. shorts, $\$ 19$; Ontario bran, $\$ 17$ per ton
shorts, $\$ 19$, car lots, track,' Toronto.

COUNTRY PRODUOE.
Butter.-Market was again casier areamery solids, 26 c . to 27 c . ${ }^{2} 80 \mathrm{c}$. ereamery solids, 26 c . to 27 c. ; separato
deiry, 25 c . to 26 c ; store 10 ts , 22 c . to Eggs.-New-laid, per case, 21c. to 22 c
Cheese.-New, twins, 18, Cheese.-New, twins, 183c.; large, 18 c .
old, twins, 15 c .; large, 14c. Honey.-Extracted, 18, c .; combs, none
offering. offering.
Beans.
Beans.-Broken car lots, hand - picked
\$2; primes, $\$ 1.90$, ranging down $\$ 1.50$ for poor quality.
Potatoes.-Market firmer; Ontarios, 700 to 80 c .; New Brunswick Delawares, 90 c to $\$ 1$ per bag, track, Tioronto.
Poultry.-Receipes still continue to be light, but prices are Arm. Turkeys,
22c.; chickens, last year's birds, 22c. to 23c.; spring chickens, broilers, firm, at hons, 16 c . t
200 . dressed.

HIDES AND SKINS
No. 1 inspected steors and cows, 18 c . city hides, flat 12 fe c.; country hides, cured, 12 lc. ; country hides, green, 11 l c ., calf si.10 to $\$ 1.25$; lamb skins and pelta, 15 c . to 25 c .; sheep skins, $\$ 1.50$ to $\$ 1.85$; horse hair, 37 c. ; horse hides, No.

1. $\$ 8.50$; tallow, No. 1,' per 1b., 5 \$ e .

Wool.
Coarse, unwashed, 15 c .; coarse, washed
tc.; fine, unwashed, 17c.; fine, washed,
26c. fruits and vegetables. Apples-No. 1
$\$ 4$ to
$\$ 4.50 ;$
Spies, $\$ 5 ;$ Spies, No.
other
varieties,
$\$ 8$ \$3.50; cabbage, new, per case, \$8; new
potatoes, $\$ 7$ per barrel; beets, per bag, potatoes, \$c.; parsnips, per bag, 60c. to
30c. to 40e.c.
75 c.; American strawberries from Mary land and Delaware, sold at 15 c . to $17 e$

Cheese Markets


Montreal. Live Stock.-The cattle market showed
very little change last week. Tone wa
firm farm, owing mainly to the limited supply cient to supply buyers with their require ments. There
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Poor
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actory business. brought out a very saties suties were not
heavy,
buyers. Heavy -draft, 1,500 aborbed by
bs., $\$ 300$ to -draft, 1,500 to 1,700
1,500 lbs., 8225 to 8800 ; light' horses, broken-down, old animalis, $\$ 75$ to $\$ 1200$, mals, $\$ 850$ to $\$ 500$ and carriage anil Poultry.-There was a light trade paseing, and prices were unchanged, as fol-
lows: Turkess, 28c. to 24 c, per 1 b . geese and fowl, 15c. to 17 c .; ducks, 200.
to $222 .$, and chickens, 18 c . to 19 c . Dressed ${ }^{\text {and }}$ Hogs.-A. . moderately active trade is passing in dressed hogs, and
prices held steady, at 14.c. to 144c: per Cured meats are in good, steady de mand, and prices are holding Arm.
Medium weight hams sell at 190. to Medium weight hams sell at 19c. to 22c. to 28c. per lb. There is a very good trade in lard, and pure leal grades
are selling at 14 fc . to 14 fc . per lb . are selling at 14 k . to 14 fc . per lb.,
while compound lard sells at at
9 f . to 10c. per lo.
Potatoes. - Stocks becoming Highter.
 Cbs.; Quebec potatoes, 55c. to 80c.
Sales in a smaller way at an advance
Syrup and Honey.-Maple syrup in tairly good demand. There is no change
in pricees, however, these being 85 c . to 90 c . per tin, and 7 c . to 8c. per 1b. In wood. Maple sugar sells per 11. to 18 c. to 17 c. per $1 \mathrm{bb} .$, and extracted,
11 je. to 1 ce. , dark comb, 14 c, to 15 f ., and strained, 8 c . to 9 c .
Egge. not very satisfactory, being apparently maller than those of a year ago. There a a good demand, and prices of ordinary
stock held about steady; alio nelects are now beginning to be asked for. Prices
21e. to 23c. per dozen, according to quantity for straight receipts. Selectec Butter. -The tendency of prices ie rather upward than otherwise. Finest cream-
ery is quoted at 26 jc . to 27 c . in a ory is quoted at 26 q̌c. to 27 c . in
wholesale way, while choice stock may be had at about te. less, and secondary grades at 25 fc . to 25 fc . Dairy butter,
steady, at 22 c . to 2 sc . Cheese.-Prices of cheese also continue to advance slightly, and at the present
time Western Ontario cheese is quoted it around 12tc. per lb., Easterns being to. under this igigure. Evidently, there is a
fair demand. Grain.-Pric
Grain. -Prices slightly lower. Oats
quoted at 41c. to 41 tc . ex store, for No. 2 Canadian Western, and 41c. Sor No. 1 extra feed; 40 c . to 40 itc. for No.
1 feed. Ontario malting barley, 61c. to B4c. ex store. Manitoba No. 8 barley,
56 ce.; No. $4,55 \mathrm{c}$., and feed, 49 c , to 50 c . $56 \mathrm{cc} . ;$ No. $4,55 \mathrm{c}$., and 4 eed, 49 c. to 50 c .
Flour.- $\$ 5.40$ per barrel for Manitoba Flour.- $\$ 5.40$ per barrel for Manitoba arst 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 rollers. and $\$ 4.75$ to $\$ 4.85$ for straight rollers. sl a ton in bran bid a decline of $\$ 1$ a ton in bran, and of $\$ 2$ a ton in
shorts during the week. Bran is now $\$ 17$ a ton in bags, and shorts $\$ 19$, while
middlings are $\$ 22$ to $\$ 23$. Mouille is middlings are $\$ 22$ to $\$ 23$. Mouille is
quoted at $\$ 32$ to $\$ 33$ per ton for pure, quoted at $\$ 3226$ for mixed.
and $\$ 26$ to $\$ 29$ per
Hay. $\$ 13$ to $\$ 18.50$ per ton for No
thalad hay, car lotes, track; s11.5o
 Hades.-Steady. Boet hides, 1116.


 railow suls
routh

## buffalo.

Cattle-Prime stoerr, 88.16 to 88.85
 38.25 ; cows, 83.75 to 87.50 ; bulle,
to 87.75 ; heltere, $\$ 8.50$ to $88 \%$.


Hogs.-Mixed, Yorkers and pigy, ©9; dairies, $\$ 8.75$ to 88 . Sheop and Lambs,-Lambs, 84.50 to \$6 to $86.16 ;$ owee, 88
mixod, $\$ 5.60$ to 85.86.

## Chicago.

Cattle, - Beoves, 88 to 88.90 , Toxas
teere, $\$ 8.65$ to 88 ; cown and holters; 8.60 to $87.80 ;$ calven, 88 to 811 .
Hoga.-Light. 88.55 , 88.85 Hogs.-Light, 88.55 to 88.85 ; mixed, rough, $\$ 8.25$ to $\$ 8.40$; plgs. to 88.65 to
i8.40. rough,
8.4.0.
Sheep
to 85. 85.75. Lambe-Shoep, native, 85.10 hambe, native, 85.65 to $\$ 7.40$; Weotern;

## British Cattlo Market.



## Trade Topic.

 A CONTEST FOR FARM TRAOTORS. Tha larm-tractor conteet to be held at of this year, Ahould be its $c_{0}$ 19th, practioally every farmer. The Wianipes Motor Contest has done more tomind the rapld development of the farmtractor induastry in the patt fow yoarn tractor industry in the peat fow yoarn
than any other one thing. The Arpt one than any other one thing. The Arpt one
Was held at Winnipeg in 1008 . Enech succoeding content has shown marked
improvements, both as to types of emp ginei best adapted to farm worls, aid to tically passed the experimental atago, and at the present time we find a num These contente mean much to the markit. Theturer. It gives him in opportunity to observe and study the performanace of his own and his competitors" mechinit tiorking together under the same cold
In the wis, as in no othor, Is brought to see both the strons and
weak points of his product. Ho gote many new idens by coming in conthet him to make new fmprovemento on tio engines. The next your Andr-hlm com ing out with a bettir and more pracilena year, emong the many tractor manutic year, among the many tractor maulice
turers that will compete with thotr an gines is the M. Rumoly Company, of LaPorte, Indiani, whome Oll Pull Truot ors, in last year's conteot, scored higher number of points, than any internal EXHBBITION DATES International Horse Show, Olympla, London, Eng.. June 10 to July 1.
Royal Show, Bristol, Canadian Industrial Franhlition July 1 - 6 . peg, Man., July 8-16.
Dominion Exhibition, Brandon, Man. Regina, Sask., July 26 to Auguet Saskatoon, Sask., August $\mathrm{s}-8$. Edmonton, Alta., Auguet 11-16. Cobourg Annial Horse Shaw, Auguit Canadiat Canadiah National, Toronto, Ont., Canada Central, Ottawa, Ont., sopt. Western Fair, Londen; Ont., Sopt-
-18.

## Antonio Stradivari

 Ao mantion Cremore is to thint of lecht miles south-oist of Milan, derive thare of the great violiti-makerStradivari was born in 1644, and at
and ago wâs a pupil of Nicholas at early ago wiot a pupito nich at The immediate ancostor of the viotin) the immediate ancostor of the violin),
and of violine. Amati, a music - lover
and
 Tlolin-modelas doveloped by his father and
his grandeather but it remined tor to grandtather, but it remained for the coung puph to bring this exquisitely
senaitive instrument to the highest peroeflion that has ever beom attained. Himsell musical and endowed with ${ }^{\text {a }}$ ree that spelled poitive senius to timvre that spelled positive genius, stradiwn account, the arrat following some What the Amati models, small, sturdy, ad covered with a thick, yollow var-
But hith was not satisfod.
He onsive than this, instrument more reat should be heo speaking soul of the pertormer, as pody to weop and to sigh as to burst
lorth in triumphant ppoons. And so he wortied on, experimenting with form, thth various woods, and their position In the instrument to ensure the greatest ound holes 'and bridge, with materials or strings that should be of requisite emoothness 'and lightne

 complighed the "Alard," the most axQuivite Violin that has ever been pro-
duede. For there are stradivaris and Stradivaris, and it was, no doubt, be coube of his realization of this, that the
great maker named his best instruments, beginning with the "Hellier" in 1679 , through a long list, ending with the "Muntz" in 1736.
Stradivari discovered that the number of pieces of wood required to bring out the perfect musical tone and responsive dipal dimensions of a very fine specimen of his 'work, yet in excellent condition after two hundred years, are given as

Length of body -14 in
Width across top-6 $11-16$ in. bare
Height of of sides
Height of sides (bottom) -1 in- 72
The back of this instrument is in one
plece, and its finish 11 a fine orangered ploce, and, its finish is a fine orangered
oillvarnish, left just as the master-hand applied it. It is to the varnish, indeed, that much of the peculiar quality of tone of the Stradivarius violin has been
ascribed, but the secret of its composiascribed, but the secret of its composi-
tion went into the grave with the great maker.
After his death, in 1737 , the craft was Ftill carried on by the sons of Antonio, atill was alled with promise in the viol viloonceHos, and violins, that hung upo 1 Its walls, but never again was an instrut ment produced that so reflected and car
rled on down the long touch of genius. $A$. the making of the violin, for after his day all violins were based upon his In these davs of piecework and quickly
drying spirit varnishes, of hurry and drying spirit varuishes, of hurry and
greed, the soul of the violin has well nigh slipped ofl into the great Outsid
gentie, loving spirit, who, incarnated,
shall, with fine and tender fingers, and with fiñnite patience put piece to pind and rub and listen and experiment, as did Antonio Stradivari, of Cremona.
True, the days True, the days of Stradivari were days Europe essayed to to to mnsicians, days in which kings paused at Cremona and rease of to buy from the Italian mas of of instruments, but such creations
of those of Stradivari could never, either in his day or ours, proceed from any ther hand than that bent, on producing arflect whole, an emanation of mind,
and expression of soul. In this twentiet, century, we plume ourselves upon progress. It might profit us to question Whether, in our zeal for speed, in our ing of one part to noe man, another to another, a whell to one, a screw to another, and the dropping of the wheel upon the screw to a third in endless re
Iteration, - we are not losing son leration,-we are not losing something,
geining perhaps in quantity, but losing In quality and in men. Does not the history of Stradivarius teach us that in
some thing some things, at least, the patient, lov-
ing touch, from start to finish, the work ing out of a vision, the expression of an
Idea through the cratte idea through the cratt of the hands, may
be neceessry be necessary to the perfect production
and to the needed satisfaction the and to the needed satisfaction and de-
velopment of the individuality of the velopment of the individuality of the
producer ?
So individuals, so nations.

Hospital Nursing at Home
Elisabeth Robinson Scovil, la
Superintendent of the Newport
MI-solid FOOD.
When convalescence begins, and often serious if the thness ifs not an extremely


In the Spring o' the Year with gelatine ge, and creams stiffened used as fuel in the body, instead rom and the sufferer turns with disgust hom milk, which he sometimes declare Made wishes to see again Irish moss, or gelatine, owecornstarcl enemy, he will not recognize his an enemy. Nevertheless, it is there, with all its possibilities of nourishment, only
being in a new dress it is welcomel being in a new dress it is welcomed in
stead of being swall stead of being swallowed
not refused altogether. The preparation of food in such a wa that it will be eaten instead of being rejected, is one of the most importan
by illness, must be built up and restored an this can be done by means of
MILK AND EGGS.

Milk and eggs contain all the elements needful to present them in such is only that they will tempt the appetite to de sire them, and can be easily digested
and assimilated once they are safely in he stomach.
The capacity for food varies greatly in ages. - Too much upsets the difestio and makes the invalid uncomfortable besides belng only so much waste ma
terial to be lerial to be got rid of, absolutely use
less to the body. Too little nourish ment weakens the frame and retards con valescence. Each case must be judge It is is bete and the happy medium found. It is better to give food more frè
quently, and in smaller quantities, rather than to overload the stomach with to large a portion at one time. A little thoroughly digested and taken up by the larger mass which overtakes the tion and cannot be converted into such a form as to be easily dealt with by the tissues, crying out for fresh building
material. Enough, an
times a problem not too much, is some genuity of the nurse. The doctor can

## gelatine

Gelatine is the substance that cause jelly to stiffen and retain its form. It was once thought to be useless as
food, but later experiments have that it prevents the waste of other ele ments in the diet and, therefore, is important as a building material. If it is not given in sufficient quantity, the
flesh-forming substance in the food

orm flesh and blood. aken in any quantity alone. not be sweetened and flavored, and made into is different kinds of jelly so that it will be
appetizing. Directions for makitan in all packages put up for making come jelly, orange jelly, grape-fruit Lemon jelly, strawberry, and raspberry jelly, are to tempt the variations that can be used membered that sick peonte should be renot care for sweet things as a rule, do heold be used very sparingly,
Buice, strong beet ten.
can be stiffened with gelatine and se A quarter of an annce of $\underset{\text { stiffen a small an ounce of gelatine wil }}{\text { A }}$ nary weather. If it is very hot, or ver damp, more is required; in cold weathe less will answer the purpose.
to make only a little object, it is bes is mot liked, the waste is small. creams.
This introduces another valuable class
of food for the invalid. The basis milk, with sometimes a little crean added, flavored, and slightly sweetened
the whole made into a semi-solid with gelatine. Sometimes the flavoring als adds a little more nourishment, as when chocolate, or cocoa, is used. A little less gelatine is required than for jelly.
Many different flavorings can Many different flavorings can be used and browned in a frying-pan, confee, the juice of on orange, essence of lemon, o syrup from preserved ginger, pineapple The white of an egg beaten stiff can be added to each cup of liquid. The mil ing and sugar added, and the mixtur poured on the beaten agg, well mixtrred
and set aside to If it can If it can be borne, and is not too rich
for the invalid, the yolk of the egg can be added to any of these creims. I this case, it is cooked with the mill until the mixture thickens like custard ice cream
There is no more palatable way t to the invalid, than in ice cream. part of the daily ration can easily be aken in this form, even When milk is of it. and children are especially fond
A.small ice cream freezer, holding abou a pint, is very convenient, but ice cream
can be made without it. Put the liquid in a small tin, stand this in liquid one, or in a pail, pack the space be, tween with crushed ice two parts, coarse salt one part, and stir the liquid fre in as st freezes. Whe the side at the and let it stand for fifteen minutes. The white of an egg can be added if desired, or a whole egg, well beaten before stirring it in. This, of course, adds
to the nourishment. Be sparing with the sugar. Any of the flavorings menfoned for creams can be used, also the and blueberries.
When it is very desirable, to add fai to the diet, and there is diffculty in persuading the patient to take it, two used to each pint of milk and its pres ence will not be perceived.
sherbet.
When milk and cream cannot be dian be given in a water-ice. Beat the half, or the whole egg, slightly, add and any flavoring preferred, pour in a
cool of boiling water, and freeze when Oyster liquor and clam liquor can be be solid, the coolness is grateful to Milk wherb fever, even if lightly frozen. Milk sherbet is made by freezing milk. sweetened and flavored, usually with the
juice of a lemon. Allow one small lemon to each cup of milk, and mix the fice with the sugar before adding it to blano mange.

[^0]JUNE 5,1918

- proparation of milk, thickened with cormitarch, and variously colored, accorring to the other ingredients. a valuable food for the convalescent, as
besido the millk there is a certain amount beside the milk there is a certain amount
if nourishment in the corn flour. Reof nourishmek mang come on the package in which it is put up.
The ingenious cook will-devise many varietions. A well- beaten egg can be
dodded to each cupful of mill used to inadded to each cupful of milk used to in-
croase the nutriment. It cocoanut is aroase the cau be digested, a dessertspoonful can be used to each cup of milk,
Grated chocolate, or cocoa, is frequently sproted
Graded.
added
Irish moss is a seaweed. Iceland moss Is a lichen, and when dried, is said to
contain more starch than potatoes, and more flesh - forming material than oat-
meeal or corn. Ceylon moss is also a seaweed used for food, but is seldom
seen in this country. They all may be setilized in the preparation of delicate diahes for the invalid.
To make Irish moss blanc mange, soak
a quarter of a cupful of the moss in two a quarter of a cupful of the moss in two
cups of milk, having first washed it in cups of milk, having first washed it in
cold water. Add a very littie salt, as much sugar as desired, and flavor with
lemon, or vanilla, if preferred. Some lemon, or vanilla, if preferred. Some
persons like the peculiar navor of the persons like the peculiar
moss without any addition.
trish moss jelly is made by soaking the same quantity of moss in cold water until soft. Put it in one cup of boiling
water and simmer until it is dissolved. Fater and with lemon fuice, and sweeten. Strain through cheesecloth into a mould. Cream may be eaten with any kind of blanc mange. If the invalid can take It, whipped cream

Tapioca jelly is much liked some
persons. persons. It is made by cooking a
quarter of a cup of pearl tapioca in one pint of milk or water until it is entireIy dissolved. Sweeten it, and flavor to
taste with lemon, vanilla, or almond. A beaten egg can be added to the milk
before it is cooked. Farina, rice, and before it is cooked. Farina, rice, and
arrowroot, can be made into jelly, or blanc mange, in the same way.
It should be remembered that tapioca,
which is made from the root of the which is made from the root of the cassava, a South American plant, and
rice and arrowroot are composed chiefly of starch, and, therefore, require the ad-
dition of milk, cream, or eggs, to make dition of milk, cream, or eggs, to make
them of much nutritive value. Starch them of much nutritive value. Starch
furnishes heat and energy to the body, furnishes heat and energy fo rming material. Starch is of grea
proper place in the diet.
oatmeal

Well-prepared oatmeal, served with mill or cream, is an ideal lood for the convalescent. Put one cup of oatmeal in a
double-boiler with a little salt and three cups of boiling water. Do not stir, an let it cook for three hours. A shor
time before removing it from the fire, time before removing it from the fire,
take off the cover to lot the steam escape. All cereals require long cooking; even the steam-cooked cereals should be rected on the packages.
A double-boiler can be improvised by setting a tin pail, or tin can with
tight cover, in a saucepan of boiling tight cover, in a saucepan or
water. Corn mear and barley flour can be used Corn meal and make porridge and give variety to
the maet. Fartna is made from wheat,
the diet. the diet. Fartna is made from whear, and is delicate and denced. Figs, prunes, and dates, ses and mixed
Boft, can be cut in pieces and
with any of the cereals before serving them

> curds.

Milk contains an element called casein, Which is coagulated, or rendered from the
rennet, a substance prepared fre is sold rennet, a sucal's stomach. It
lining of a cald
either in liquid or tablet form.
To make curds, or rennet-custard, warm
a pint of milk until just lukewarm,-if a pint of milk until just lukewarm,
too hot the rennet will not act on it. Sweeten it slightly, and flavor with
vanilla if liked. Add half a tablespoonvanilla if liked. Add half a tablespoon-t
ful of liquid rennet, or half a rennet
tublet Pour it into the dish in which tablet. Pour it into the it stand until
it is to be served, and let itle
firm. It should be eaten with a little
$-$

To render EGG JUNKET eggs can be added. Separate nourishing, beat the whites until stiff, and the yogs,
until they until they are thick, add them gradually
to the whites, beating constantly, Heat one pint of milk lukewarm, with two tablespoonfuls of sugar and any flavoring preferred, vanilla, lemon, cinnamon, or nutmeg. Pour this over the beaten
egg and stir in half a junket tablet disegg and stir in halp a junket tablet
solved in cold water. Serve cold. It will be seen that many nourishing
dishes can be prepared for the invalid with comparatively little trouble. He need not be offered plain bread and but-
ter, with jam, or cake added, when there is such an abundance of more suitable
food to choose from.


A Visitor from the North. Arctic

## The Windrow.

A $\$ \mathbf{1 0 0 , 0 0 0}$ hotel in El Centro, California, is to be named "Barbara Worth,"
atter the heroine of Harold Bell Wright's novel, "The Winning of Barbara Worth."

All nations have been invited to par-
ticipate in the celebration that will marla ticipate in the celebration that will mark
the end of the century of peace between the end of the century of peace betw
Great Britain and the United States:


The Egret in a South Carolina Forest.
It is stated that moving-picture houses
It are driving saloons parts of the United States.
."The Cnited States cannot compare with Great Britain in the rate in which
it is reducing its national debt. While George has to provide is nearly one
billion dollars, out of this $\$ 00,000,000$
is put aside every year to reduce the
debt. Fifty years ago it was $\$ 4,100$ 000,000 , while now it is $\$ 3,800,000,000$. At the present rate, it will take firty-
five years to extinguish the debt, if there ive years to extinguish the de
is no war."
Mrs. Julia Ann Henson Wheeler original of the character "Uncle Tom," in Harriet Beecher Stowe's story, "Uncle Tom's Cabin," died at Flint, Mich., recently, at the age of seventy-two years.
Mrs. Wheeler spent most of her life at Chatham, Ont.
At the last International Anti-tubercugium, the belief heemed to brussels, Bel-
eral the very general that children are. most susceptible
to infection by tubercle bacilli, and that to infection by tubercle bacilli, and that a large percentage of infections take
place in childhood, even though the displace in childhood, even though the dis-
ease may not develop until adult life. It was pointed out that the conditions
which predispose an individual to tuberwhich predispose an individual to tuber-
culosis are want of proper food and air, culosis are want of proper
unhealthy trades, and the like, which prevent the individual from producing a prevent the individual from producing a
sufficient quantity of good, blood to
nourish the body and defend it against nourish the body and defend it against
the bacilli. Dr. Bruck, of Berlin, also called attention to the fact that bad teeth, which impede the absorption of food, and adenold growths in the nose,
which prevent proper breathing, both conwhich prevent proper breathing, both con-
tribute to infection by tuberculosis, particularly in children.
The word that stands at the center of what has to be done is a very interestling word indeed. It has hitherto been supposed to be a word of charity, a
word of philanthropy. This word is "service." The one thing that the business men of the United States are now discovering, some of them for themselves,
and some by suggestions, is that they and some by suggestions, is that they
are not going to be allowed to make any money except for a quid pro quo;
that they must render a service or get that they must render a service or get
nothing, and that in the regulation of nothing, and that in the regulation of
business the Government must determin business the what they are doing is a service or not. Everything is business, and
politics will be reduced to that standpolitics will be reduced to that stand
ard. The question is, "Are you giving ard. The question is, "Are you giving
anything to society when you want to anything to society when of society ${ }^{\text {n }}$ " large part-too large a part-of the for
tune-making of recent decades has con-tune-making of recent decades has consisted in getting something for nothing. of "nothing." A man is entitied to the earnings of his brain. I want to de
clere for my follow citizens this gospe clere for my follow citizens this gospe
for the future, and the man who serve will be the man who profts.-Woodrow Wilson, President, ס. s. A
to the Farmer
"A canary a-tilt on a thistle is fit for a poet's dream. ${ }^{\text {B }}$ To a farmer with eyes
to see he is more. That farmer will say, "Go ahead, my boy; there's a streak
of yellow in you, but it's pure gold." of yellow in you, but it's pure gold."
For, you see, the thistle is the gold For, you see, the thistle is the gold-
dining-table, and the farmer can afor to be gonerous in giving away thistlo-
seed. As eaters of weed seod, the Anches are joined by some fourteen species of sparrow. To you, oh bealers of our plague, is hereby tendered the gratituce
of our spud and us ? For, from our attention to the new and lusty weode. we cannot well spare time to shape Without our helpers, we should to--ander the weeds.
And then to the inseot-eaters. If we were a poet we might begin :

I've seen grubs crawlin',
Full many a fall in,
Their wicked way squirming o'er wood land and lea-

But we're not a poet. It won't do.
Still, the "varmints" are there. There Still, the "varmints" are there. There ous birds. There would be fewer if we had more birds.
To name a few of our insectivoroue birds, first, in the felds, are the sparrow
tribes again, the meadowlarls and sandpribers; in the orchard and woods, the chickadees, nuthatches, woodpeckera, and thirty-three species of warblere, the war-
wings, orioles, and six specles of vireos wings, orioles, and six apecios of vireos.
These are but oxamples from long liuts. for we have many birde, and practically all are insectivorous, even to the owlis in straits; seed-eaters feed their bables on
insect and worm-meat. Then, man Zhas some feathered guardtans of his person to thank. These may also be callod housemaids, who, however, do their work
out of doors. Not to be mysterious out of doors. Not to be mysterious,
they are the swallows, the nighthawls, and whip-poor-will, that dine upon the ants that are" such ablding visitors is once they reach the cupboard, the houese
and other flies, and those maddening and other files, and those
musicians, the "muskitties"! For the mice, the muoh-abused owle and hawke are willing to do good service by o. W. Nash, in a book that travelled out to us some time ago. Wholesome, in brown - paper covers, it is numbered,
like a convict or an automobile, 178 . rike a convict or an automobile, 178.
This is "The Birds of Ontario is Relen This is "The Birdse of Ontario in Rolar
tión to Agriculture," and is one of the tew good things one gots gratio. Wo are indebted for it, of courae, to the
Ontario Department of Agriculture, To Ontario
ronto.
But
But with all thene proteoting birdi, wey haps we farms are not protected. Poen We allow our birds to be killed, or, not content with that, we take an aotivo hand in the slaughter. They have cowbird, that bird without morals, doserves the least mercy, it would nom. laid on the domestic sat-e convenien article, always, to lay blame upon. But
the worst of all bird enemies to the do mestic cat that sallies forth in winter
millinery of gorgeous plumage and itufied
 birds. Statistics are ahocking afialro
sometlmes; Ehockingly tireosome, you may sometimes; shockingly tiresome, you may
say. When, in four months, Now Forlt
dealers were supplied with 20,000 blrdo from a single village, don't you think it
would be an active puesy that would would be an active puesy that wound vanity? The estimates of millions of dollars annually to different Provinco where insects have gained that uppers to be too low. Common sonpe muan
come to the rescue, either in our lawo or our women, or bettor, in both. Farmers' wives, with the buttor-fatteat
purses, cannot antord birds in thelr hate at the price of grasshopper - eaton peotures. The study of bralder benides boles of hard-cash farming value, is faselnat ing. One spring we the our dreame wo chased a wonderful bred, which, on bolng
cornered, resolved itsell into a mild forme of barn-yard hen. Ornithology will leed naturally into entomology. In the lat ter study, also of vital intiorest lo therned, though some of us may have a glimmers ing idea that sawaies and cutworms, on which so many of may not belong to the ame genus as swordiAh.
But how are we to protect the blirds? Plant trees near the house; keep cowbirdid eggs out of the nests that my bern st
there. Kep the cat in the bares and
nesting-time. Keep our wives and
daughters in modest and lovely, head
gour. Teach the eshool-children the gear. Teach the school-children the use
fuliness of the birds, and our boys the
legitimate use of their legitimate use of thir guns. Without
dictating to our betters any longer wquid like to of betters any longer, more point wrow our notes, ill-arranged as they are. in appetite for man would only develop has for one, or it the hired girl could be persuaded that a diet of house-fies
and mosquitoes would keep her hair in curl, we should have an easy solution of the "boarding-hired-help", problem. This le just the stuff Mr. and Mrs. Average Bird are asking, not only for board, bu
also for wages. Can we afford to do without such cheerful, beautiful, inexpenisive, and industrious laborers? No
by a beak-full ! Bruce Co., Ont. $\qquad$
Something More About Birds.
Those who have reed the interesting
artiele above on "Birds and Their Rela thon to the Farmer," will have bee im pressed with the necessity of bird-protec tion, were it for nothing more than their sconomic value as protectors of fruit and srecti.
As a rule, however, people do no toathered triends heve to face, nor our ware of the fact that, under present conditions, but one bird in
over \& Iew months at most.
Upon the long migration from South ond tall, thousands upon thousands spring by the way from causes that cannot bo provented. For instance, Anne slosson olls, in Bird Lore, of thoisands of birds dying of sudden cold upon one night of
Et. Valentine, so that next morning they were gathered up by the basketful in the theey do of Miami, Floride. Flying as lision with the wires that now extend everywhere, and so the brave journey
comes to speedy end; others becoming bewildered by lights and storm, are But these dangers to the song-birde arl bot nothing to those that lurk in the avil menace of deliberate enemies. Thare are snakes and cats to be guarded
against from below, birds of prey ever reedy to pounce down from above. $\left.\begin{array}{c}\text { In- } \\ \text { In- }\end{array}\right]$
dood/ as a noted bird lecturer has said, 'Almost every moment of a bird's life Nor aressed by fear
Hest foe to bird-life exists in the form of men and boys, who should know bettor, or be compelled to do better,--men
and boys with their treacherous guns and soys with their treacherous guns be direeted against such entirely help-
lose, beautiful, timid, useful creatures more one realizes that thinks of it the who can deliberately shoot a song-bird for his own amusement is nothing better his country.
"pport" 1 1!-But these are not for Bobolinks and robins by the thousan are shot and eaten by negroes in the in almost any of the districts occupied by illterate classes of foreigners. In a,
recent number of "Our Dumb Animals", recent number of "Our Dumb Animals" of four robins caught in a single hair trap set by an Italian; while only a year or so ago steps had to be taken to pre-
vent "navvies" working on one of the railways of Northern Ontario from kill ing indiscriminately warblers and sma birds of all kinds to make pot-pie.
Women, too, in spite of all their Women, too, in spite of all their boasted tenderness of heart, have been wanton
murderers so far as birds are concerned. If no woman would consent to wear wing or feather of any wild-bird on her hat,--
ostensibly a trade. which ostensibly a trade, which Lord Curzon
has stigmatized as "nefarious and abominable," would speedily cease. With that trafic going gaily on, such statistics
as the following are afforded: A dealer in birdskins last year killed
chiefly for the millinery trade, 11.000 birds in South Carolina alone. On in vestigation, it was found that this dealer
sells, on an average, 30,000 blrdskins sells, on an average, 30,000 blrdskins
ear. And so the story goes. In the
eame year, during four months. a single

Long
siand
irds
village for
Little wonder, is it, that Holtz shoul societies for the prevention of cruelty $t$ animals. These are largely composed of women. Yet, many of these same women, who would have a man arrested Yor beating his horse, or for leaving it
unblanketed in the cold, will contentedly and with pleasure, wear hats adorned with the plumage of birds, plumage that was obtained by the death of the bir
to which it belonged." Surely women sho
Surely women who desire be consistent have at least strength of mind enough to deny themselves this wicked adorn ment. A couple of weeks ago a hat hat
was observed in one of our millinery was observed in one of our millinery Its cost was $\$ 25$, and its chief ornament was a mass of graceful egret feathers. handling the delicate strands shop-girl, No doubt some other woman is thinking the same to-day, as she self-consciously But,-overy egret plume the street. But, -every egret plume of this kind in for only during the nesting-season do these fllmy tufts, which alone are sought for the egret trade, appear. As a consequence, when a parent egret is shot,
the chances, are that a nestful of little egrets must die of starvation. In one district in the South, a law was passed some time aga to prevent the killing of
these birds. But the trade was lucra these birds. But the trade was lucra-
tive, and the huinters found a way to evade the law; the egrets were snared, and the tuft cut trom their bodies ! Now, do women need to wear such wearing feathers, can they not confine themselves to those taken from domestic fowl, which can be beautifully dyed now-
edays, and to ostrich feathers, taken from birds kept for the purpose.
If not tender If not tepder enough and. eesthetic
enough to wish to protect birds for their enough to wish to protect birds for their
own sake, even women should be amenimmense value to farmers and fruit-


Spartow Hawks
insectically all of our wild-birds are going so fast. Lumbermen cher then The few cherries any robin wedi-seeds. down. Fire burns them up. Insects his own, cannot begin to be weighed in
the balance with the protection the baiance with the protection which Me exercises as "police of our crops." in Virginia alone, annually destroy 578 tons of weed-seeds. Corresponding estimates hav.
of insects.
protective measures.
ing taken places, steps are, indeed, be the taken for the protection of birds, but At present, Lord Curzon is a law to prohibit the importation into England of humming-birds, birds o Paradise, and egrets, for millinery pur
poses. poses.
Hecent donated $\$ 150,000$ to provide a parpetua home for birds in the New England States-an area of meadow and wood-
land from which guns and snares will be prohibited.
The Mass
vention of Cruelty to Animals, is ofre ing twenty prielty to Animals, is of $\$ 10$ eachof \$5 each, for evidence to convict per setts by killing any insect-eating bird, or taking eggs from its nest.
In New York State In New York State and in New Jersey,
passed, also in Texas, where it is un-
lawful for any person to "kill, catch, or have in his or her possession, living or iead, any wild bird other than a game for sale, transport or ship, within or without the State, any such wild bird, after it has been killed or caught; and o part of the plumage, skin or body, of
any bird protected by law, shall be sold, or had in possession for sale or other-
or hall wise."
This is rather comprehensive, is it not? The birds in Texas excepted from pro-
tection are, English house hawks, buzzards, blackbirds, ricebirds, In certain species of owls. In our own land, there have been a but nothing substantial has as yet been accomplished. Surely some agitation lor definite steps should be taken by those to whom the presence of birds means so much-and to whom does it
mean more than to the farmers? Farmers, as a rule, however, do nothing, and so must increase their expense and work in spraying year after year.
Woodpeckers and warbler
free from borers. Flycatchers, meadowlarks, orioles, swallows, wrens, field sparrows, and robins, are almost wholly
beneficial. There are others in of which the same must be said.
Wage war if you will on crows and blackbirds, cowbirds, and house spar-
rows, but wage war friends as they are. Something may be done by educating boys to spare young birds and birds' nests, but more than that is necessary. The town
boy, fired with zeal for "hunting" ow boy, ifred with zeal for "hunting on
holiday, is a constant menace. You may meet him in squads in the vicinity o any city on such days. The country scrub hunt," resorted to most frequent prevented. Bird-life could be protected in Canada as in other places if the right
steps were taken.

## The Woodpeckers' Work

 More and more we realize the importance of planting trees and taking car
of the forests we have, because they ar

There is one little bird that is doing all it can to destroy the insect-enemies pecker. The It is the downy woodhonored him by choosing him ington has of the State. Watch this industriou so tame you chance upon him. He is your presence will but his his work that He is one of the tireless, all-the him round workers, for whom the days ter, to get a good living enially in winis often seen in the orchards, he has him of ofpected by those who do not know
being after the fruit. It is never the fruit, however, that he is seek-
ing, but the grubs the ing, but the grubs that injure the fruit

- Selected.

Feathers on Women's Hats
If women must wear feathers on their
hats, instead of the plumage of song
birds birds, let them wear the winge of ong
ens, or of the national bird, the turckey
The number on try has been reduced birds of the cound cause a few foolish and almost half, be
have no feeling ahamen who have no feeling whatever for the lives o
birds, want to wear feathers on their
bats. - Davil Sin

The Language of the Birds irds love the Harrison, Dallas, Texas.) And speak its language, too. If you will notice, you will fin The birds of Holland sing in Duteh The Scotch birds Gaelic speak, nd I am told the birds of Greec Sin

The whip-poor-will, we know so well Speaks English-why, of course
hey say all birds in Germany Sing German gutt'rals hoarse His sweet, enticing in French Although in North America He has been living long.

The mocking-bird a medley singe
of all the languages, And that is why such
In all the lands such favorit
And why the wanderer abroad
So loves his cheerful songHe calls to mind the scenes of home

The strangest thing is yet to tell In Northern Texas here, "whip Whip-poor-will, sings "whip-poor
will tp"
In English, sweet and clear But on the Rio Grande's banks He keeps his whistle wet And sings in liquify his not

For more than half a contury
Our efforts have been contury
o teach this patriotic bird
To sing in Pnele
He loves the Spanish language best
And will not let it go,
But warbles out "Guillermo mal !"
Still true to Mexico. -Our Dumb

It is hall-past one o'clock !" severely said Mrs. Gnagaway. "What kept you
from getting home until this untimely
hour ?")
"I was detained at the office, makin out statements, replied her husband.

## 蹅

## My Lady's Hat

 How many lives do you wear on yourhead,
Beautiful lady across the way? Beautiful lady across the way That Beidame Fashion may smile day ?
Beautiful lady, $\mathbf{I}$ hear them, sing,
The delicate spirits that touch
They trill and chirrup of everything Except the fate that has set them
there.

They whistle and call on the treeles These spirits of birds that are dead They circle and whirl above fields And dip in many a foaming rill

But because their plumage was anowy
white Or their breasts bore proudly a tuth Or because their wings flung a silve Or their under-feathers were golden

Or because their necks rose in slender grace,
Or their crests They lost in a brutal, unequal race garnish you. beauty migh

How many innocent birds are dead, How to-day? How many lives do you wear on your Beautifill lady across the way
-Lilla B. N. Weston Lilla B. .N. Weston, in "Our Dumb
Animals."

UNDED 1866
ad,
g.

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## JUNE 5, 1913

## Hope's Quiet Hour.

The Loss of Covetousness. The love of money is a root of afl
tinde of evin: which some reaching after tidide of evi. which some reaching after
linve bean led astray trom the olith, and
have pierced themselves through with many sorrows. -1 S. Tim. vi.: 10 .
There was astonished grief in the camp of Israel one day. From morning until
evening Joshua-the bold captain of the evening Joshua-the boold captain of the clivet men of Israel, before the ark of
God. They put dust on their heads, and even lamented the progress that had made in winning the Promised Joshua said that it would have been ter to have settled down on the other - of Jordan; "for," he said despairgly, "the inhabitants of the land ..
all compass us round, and cut off ou ohall compass us round,
name from the earth."'
What was the cause of It was caused by the covetousness of one man. Jericho, being the first fruits
of the land God had given to Tsrreet Was devoted or consecrated to Him. brass and iron, were publicly put into
the treasury of the LORD, the the treasury of the LORD, the rest of
the spoil of the city was burnt. The people were solemnly warned that if they, took any of the spoil of this first-
conquered city for their own use, they conquered city for their own use, they
would bring trouble and a curse on the would bring trouble and a curse on the
Whole camp. They were bound together
by the closest ties, and the sin of one must affect the rest; as the disease which breaks out in one member of a body
affects every other member, Achan had seen among the spoil a rich cloak, a wedge of gold, and a quantity $\begin{aligned} & \text { of silver. Covetousness sprang } \text { up in } \\ & \text { his heart. He watched for an oppor- }\end{aligned}$
He his heart. He watched for an oppor-
tunity, which soon came; and the rich treasure was his-or so he thoughtsefely buried in the ground under his
tent. Covetousness had brought him riches-apparently-but a man who has
dared to rob God is, in reality, desperately poor. The treasure could not be used, could not even be gloated over and
admired. It must remain hidden, and admired. It must remain hidden, and
the guilty conscience of the miserable the guilty conscience of the miserable
man made him tremble with fear of discovery. Then loss came upon all the nation. Their warriors fled before the
men of a little city. Pleinly God was men of a little eity. Plainly God was
no longer fighting for and with His peono longer fighting for and with His peo-
ple. Only sin could have turned Him ple. Only sin could have turned Him
against them, so the lot was cast to discover the guilty one. How Achan
must have feared as the circle was must have feared as the circle was
drawn closer and closer around him. First his own tribe of Judah was taken, then one family in that tribe, then a member of that family-the grandfather
of Achan. By that time he must have of Achan. By that time he must have
felt hopeless of escape, and could hardly bave been surprised when his father's name was called, and, after that, his
own. Death was the swift result of his own. Death was the swirt result of his attempt to rob God. Yielding to covet-
ousness he had not secured gain, but The prophet Malachi warned his people,
many years later, that not only an inmany years later, that not only an innation', had tried this dangerous sin of robbing God. They were keeping back
the tithes and neglecting the free - will the tithes and neglecting the free - will
ofierings. Those who did not dare to neglect the prescribed sacrifices entirely,
considered it. got over with as little sense of personal
loss as possible. Unlike Devid, who had scorned to offer to the God he
loved, a gift which cost him nothing, they picked out from their flocks the lame and the sick for sacrifice. They
would give God what they did not want would give God what they did not wan
-anything would do for Him. So they -anything would do for themselves. There was outward loss, for God, Who only could give rain and fruitful seasons, re-
fused to open the windows of heaven and fused to open the
pour down a blessing upon them. But. lar. worse than that, their own soule
grew hard and degraded. God did not need their gitts, the cattle upon a thou-
sand hills were His; but they needed to sand
kive. His punishments were sent in love, were intended to open their eyes to
the cancerous disease of covetuasness. hefore it had disease of coved splritual health

## THE FARMER'S ADVOCATE.

and beauty. We are told that God who are His brethren and ours, what
"Ioveth" a cheerfil giver-is not His then ?
Such a course means that we are
choosing loss of the worst kind, we are crushing down our own souls in degrad ing poverty, we are beeoming hard and
cold and selfish as a result of trying to cold and selfish as a result of trying to
rob God of our consecrated free-will rob God
ofierings.
National life is in many ways becom-
ing wiser. We have learned that to heap up riches through the unpaid labo
of slaves means deadly loss to any na of slaves means deadly loss to any na-
tion. We have learned that money paid out freely for the education of the poor and ignorant means in the end national
gain. We have learned that it is false gain. We have learned that it is false
economy and loss to be stingy in pullic economy and loss to be stingy in publi
grants to hospitals and refuges for the sick and helpless. We have learned that
sitale It pays to spend money lavishly in fighting diseases, such as tuberculosis.
We are learning the value to the comWe are learning the value to the com-
munity of each human life. I have read that an investigation in Berlin some years ago revealed these facts: When whole families were forced to live
in one-roomed homes, the death rate, was In oneroomed homes, the death ratewa occupied two rooms it was about 22 per
thousand, while four or more rooms thousand, while four or more rooms for
each family brought down the death rate each family brought down the death rate
to about ${ }_{5}$ per thousend. Unhealthy
Und overcrowding is, therefore, national murder, and indecent overcrowding degrades
the nation, spreading -vice from class to the nation, spreading -vice from class to
class. A good kindergarten for the poorest children costs money, but it pays; a froe education in vice on the streets may be cheap in the beginning, but it costs far more to the nation
the end (even in dollars), for it results In more criminals and greater destruction of property.
As it is in na
As it is in national life, so it is in Individual life, for individuals make the
nation. Our Lord warns us to beware


Vegetables from Lillian Garland's 1912 Garden
Some lamilies are forced to live and
sleep in such overcrowded rooms that the babies lose their innocence, and the boys and girls their modesty.
In the tenth Psalm we read of a covet
ous man who oppresses the poor, thinkous man who oppresses the poor, think-
ing that it is quite safe to get rich swiftly at the expense of the helpless. He says in his heart that God has for-
gotten, He hideth His face and will gotten, He hideth His face and wil
never see it.
But the cause of the helpnever see championed by the King of kings end covetousness is a sure road to mis
ery and loss. The man whose way ery and loss. The man whose way i
heppy and safe is the man who conheppy and safe is the man who con-
siders the poor and needy. - Ps. xli.: $1-3$ Let us look at Achan again. He grasped for himself that which was de vown gifts to His people. The Israelites own gitts to His people. The Israelites
served God as His subjects. The titles were required of them, and the temple
tax was demanded as a right. But we serve God as His children. We should
rejoice to give Him outward proofs of our loyal affection, we should not "pay," but "give" the tenth and the first fruits
-whenever possible. He is our Father -whenever possible. He is our Father and knows that it is not always possi-
ble. The poor who are nearest of kin must be considered first, as St. Paul says: "If any provide not or his own house, he hath denied the faith, and is worse than an infidel.'
But when we are covetous, making worldly prosperty our chie\& aim in lite, word giving as little as we decently can $t$
of covetousness; and He explains, with
wise, loving-kindness, that a man's does not consist in the multitude of things which he possesseth. The only real wealth is character. To heap up
riches and care aothing about spiritual growth, is to act like the rich fool, who
filled all his barns with his filled all his barns with his harvest of
fruit and grain-and then Died. His Iruit and grain-and then Died. His
treasure was all stored up on earth, so he went out through the mysterious door
of Death stripped of all he had hoarded of Death stripped of all he had hoarded so ccarefully. If "times are hard,", it is
poor ceonomy to cut down the gifts to poor economy to cut down the gifts to
God first. It is not an advantage to a man to be able to say: 'My religion costs me a very small proportion of my
income. ${ }^{\text {a }}$ A religion that costs little is income." A religion that costs little is
worth little. "God loveth a eheerful giver"-note that word "cheerful"-and
His LOVE is unbounded wealth. His LOVE is unbounded wealth.
DORA FARNCOMB

Save Sewing and Washing. You will be interested, we are sure, in the pictures of the house-dress appear-
ing with the advertisement of the Beld win Garment Cort, London, elsewhere in
this issue. This dress slips on this issue. This dress slips on like a
coat, two fastenings, one at back, one at coat, two lastenings, one at back, one at
throat, and the dress is on. It takes the place of both dress aad apron; when one side of front is a little solied re-
verse the front lap. Don't sew in hot verse the front lap. Don't sew in hot
weather when you can buy such a conweather when you can buy such a con-
venience ready-made. Good material weather when you
venience ready-made
reasonable price.

## TheBeaverCircle

OUR SENIOR BEAVERS
[For all pupils from Senior Third to
Continuation Classes, ineluaive.
When Peggy Plays.
 Lives down in our lane.
Once int ment to play mith per. Once I went to play
Want to go again.
Peggy hasn't any soys,
-Cause 'Cause her father's poor:
Peggy alwas makes her toyo.
My, they're jolly, iure.

Tea sets out of acorn cups, Apple seeds her mice, Wrinkled nuts for dollies' heads
Round, and hard, and nice.

Flower girls with poppy akirts Ready for a ball Burdock men, and purnplin oarto
Pegy makes them all.

Peggy's drese is old and torn. Peggy doesn ${ }^{\text {l }}$ c care,
All the woons are fall, she says.
Of pretty thinge to Of pretty thinge to mear.
Down her ragsed gown tho henge Trailing golden leaveos.
For her throat, a necklace groen
of grasses Peggy
Of grasses Peggy weaves.
On her tangled, yellow curlo Pegry twines a crown,
Barberries qike rubien red
Set in russet brown.
Peggy's house is very emall,
Just two ronms oll told:
Just two ronms all tald:
Peggy has another houre,
BIg, and wilde, and old.
Velvet mose the carpet is.
Roof of azure sky,
Painted on the spreading wallo.
Flowers and sunsets lle.
Field and forest are the rooms. Full of treasure evtiones. Peggy's just the gardener's elilid,
Owne the whole outdoors.

Senior Beavers' Letter Boz Doar Puck and Beavers:-As thite yoer
is the centenary of the bith of Devid is the centenary of the birth of Darte and tell your something about thit wort
derful man. derful man.
He was born on March 192h, 1818;
(being the second child of Nell (being the second ehild of andil Llavige, Lenarkshire, Sgne Hunter) Scotland. His parsents
were very
pious were, very pious and God-foar
ing, but they were very poor, poor
that they had to prectice the that they had to practice the strictatt
economy. It was for this roeson thet David left school at ton years of agb, and began to work in, a factory. But
he studied himself, oftion altting up till after twelve $0^{\prime \prime}$ clock at night, elthourt he had to be at the factory at als in the morning.
Hi worked bimself through collego time, and was sent as a miletonery to Arrice, that darks continent of whly th to
little was known then. Ho foum then little was known then. Ho foum the
people very, very ignorant: they hed people very, very ignorant; they had
no idea of God, except that applite no isted who ruled excerything, and withe would punish them if they displowed him . At first they were sumplelous of
hlm , but as he dealt very honeatly with him, but as he dealt very honertly with
them, besides having a wonderfully at them, besides having a wonderfully at
tractive personality, he gradually wou
all hearts to all hearts to him.
But it was hard work, and ho andured many hardobips which would dennet on
other man. This he did becanes the belisved it to bo his duty, ned ho trusted in God to take care of him
He once had a terrible encountor with about, which all the world known about. The infuriated beast aprang at him. crunching his arm, and, but for
the interference of Mebalwe, his serynt he would have been killed.
Besides prenehing the gospel Living-
atone diacovered laike $\mathbb{N}$ gaml, the Zam besi river, and many sgaml, the Zamr
leikes. Ho allo took and lakes. He also took astronomloal opb-
servations, drpw maps of fhe country

In which he labored, and was constant-
Iy getting specimens of geology and zoology for his friends at home. It
was about thin time that the slave trade was started, and he fought which he could, and writing home an counts of its horrota.
His letters
His letters of the last, few years be
ing all flestroyed by the treacherous
Boers, nöbody know Boers, notody knew whether he was
elive or not, so Henry Stanley searched for him and found him in 1871, nearly
starved for want of fond and water. starved for want of fond and water.
He was supplied with these and went back to work. Not long, however, wa
the struggle to continue, for he wa tound dead kneeling beside his bed
in a rude hut on April 30th, 1878. His remains were carried back over land
and sea by his faithful followers and Were laid in Weatminster Abbey, with
the honor that England accords only to Lochwinnoch, Renfrew Co., (Age $\begin{gathered}\text { (1) }\end{gathered}$

Dear Puck and Beavers.-As I have Just been reading your charming letters questions, is it is no harm, so here they page, or on as many as. we like? And may I write again or may I Join your
garden competition? Will you please excuse this awful writing Puck, and will Annie Condy, age 14, please write to
me ? MARGARETTA WILLIAMS. You may writs on es many pages a
you like, but only on one side of paper. Certainly you may write again,
and you may also enter our Garden Comp
name
n

seemed a strange thing to have a mother deliberately swallow her young, but I
learned later that had I concealed my-
self till the mother snake thought the danger was pased, I I would probably have seen the little snakes jump out of thappened. A mhort time ago I read an account of a gentleman who was in doubt as to whether the mother snake
did swallow her young, so he killed did swallow her young, so he killed
mother snake and found she had about mother snake and found she had about
two or three hundred living littl snakes inside of her. He said that the mother snake had a special bag or
pouch to keep her young in. He also
found a snakes neet and found a snake's nest, and published
full description of it. From what I re member the eggs are very unlike those The
mot They are ladid in circles bo so that the mother can wind herself in around them,
and one nest contains from two to four hundred eggs. The nest is about on
or two inches below the ground, and cavered by the soil which helps to keep the eggs warm. 'I do not know the
size of the snaico's eggs, but I think size of
they ar
Did a Tid any of you Beavers ever see the
frog hange his suit? Watch him, and you will probably see him take ofl his it soon now, about May or June will do Brookville Stn., St. John: Co., N. B.

Dear Puck and Reavars,-I have been
reading the Beavers' letters in ""The reading, the Beavers' letters in ""The Farmer's Advocate,' and I was tempted
0 write to your circle and see if I can join. I saw about "Hunting and Trapping', so I thought I would write. Hunting and trapping should not be Some boys think it good sport to kill un of being groundhogs, just for the fon of being smarter than some other away our chickens. We set two traps came back it caught one hind leg in one trap. Papa killed it and oold its hide, but it did not bring enough for the
lost ehickens, which amounted to etter 1 in all close. As this is my first

Peter Rabbit's Lesson
Peter rabbit
Had $a$ habit
And every night
When the moon was bright,
He crept along like a mouse
But one night
And you'd think he
for he started running

But he soon got calm,
And he sat like a lamb
As he thought about what he had nd he began to feel kind of mean,
But he was glad he was all alone.

Ie soon turned around
s he quietly hopped to tha,
H9 smelt all around

And there, on the floor
Lay an apple so big and so red
That Peter Rabbit
Wanted to grab it,
his head

And ging-werly took a bite
Peter stared with all his might
For an apple he'd been bought
But he thought of his man
It was growing late,
the door
And what he saw there, made him teel
And what he
sore,
For the lock
For the lock was not true, and the
And out widh just close
goes.
is needless to say, that Peter Rabbit,
After this gave up the houso-haunting
habit.
homer fitzaerald.
Thorndale, Ont. R R No $\mathrm{s}^{\text {(Age 14.) }}$

Dear Puck and Beavers.-Here is an-
nother new Beaver to trouble Puck in nother new Beaver to trouble Puck in
his very busy occupation his very busy occupation. 1 have been
a very interested neader for a long time, and think, like many orthers, that
Puck had a good head on him to give this circle a name like it has. I cortainly am going to
"Garden Competition."
There are some very funny riddles so by the Beavers. ${ }^{\text {I }}$ Ilike the ond one Gladys
Elsloy sent. II agree with Vera Schweitzer that it was a watermelon. I live on a farm of about four hum-
dred acres, about two hundred under
cultivation. cultivation. We have a large sugar
bush on it, and bysh on it, and in the spring we make syrup and sugar. We sold all the
syrup we could spare, and could have
sold syrup we co
sold more.
Although I am a girl I am very fond of horses. Willie King gave me a new
idea about teaching colts to lead. We
have aeven and a, yair of matched colts rising two years old, and a pair of foals, which my brother and I take great pain in
training. I have a sister who is very fond of
drawing and painting, and she mading and painting, and she has
mand sery beautiful- pictures. I
am pleased am pleased to know that Dalphne Allen is a drawer, and I hope she will con-
tinue practicing and some day win great fame.
Well,
tired
tired enough go Puck will be getting see my letter in print and wiehing Puck and the Beavers every succees ing
their future work. BESSIE CURRIE
Dear Puck.-I thought that I would
write a story on a leaf of teal The first I can remember I was a
Ilitle leaf under the ground, by and by
I slowly began to grow, and soon I was above the ground. Then I Ibogain
to unfold my leaf. My, what a begur
ful world In to unfold my leaf. My, what a beaut
ful world I saw before me. Over mo
was growing was growing a beautiful tree, and I thought what a chance it had comparec
with me to see the world. thought that I would have all the chance I wanted before I was done with
my travels. I grew and grew till I was quite a height, then with my
brothers $I$ was picked and dried. Then we were sent away to be put up in packares. When we got there we were
culled over, and the culled over, and then put up in lead
packages and labelled Salada packages and labelled Salada tea.
Then we were
Thentry shipped
to a country store. There we sat on the
counter. All the other packages were sold but the the other packages ware
day a little girl came in. Then one the package. I was at the top of the package, and when the little girl'
mother opened it she took several mother opened it she took several o
my brothers and myself out and put my brothers and myself out and put us
in a teapot, then she poured hot water
on us and allowed on us and allowed us to steep for five
minutes, then she poured minutes, then she poured us in cups.
I happened to be poured in a little I happened to be poured in a cups.
boy's cup. The litle
feeling boy's cup. The littla boy was not
feeling very well, and did not drink all
of his tea
 bottom of his cup. Then the little girl
threw me outside. There I lay on the threw me outside. There I lay oo the the
frozen ground for a while. But by and
by it begund Prozen ground for a while. But by and
by it began to snow, and soon I was
all covered over with all covered over with a nioe warm
blanket. Then after a fow months the
 krew hegan to melt. The grass grew
And I and bitrds began to sain thought what sing.

 the beauriful long grass. and am well Wheew, Ont. Iot. IYLA nURST.

Browsings Amons the Books. autumn. It is a joy in high glories of under the thick hazeindled stream, run water-plants; it is no less a the same stream running fall and turbid the trees, are leafless, and are bare, and wrinkled with triess, and the pasture is instance, of shooting Hak the joy, for confess I take a childish delight frankly quiet tramping over the clean-cut stub ble, the distant view of field and wood, the long, quiet wait eit the covert-end, where the spindle - wood hands out her
quaint, rosy berries, and the rabbit come scampering up the copse. The delights of the country-side grow upon meevery month, and every year. If love to
stroll the lanes in spring, with clouds floating in ine spring, wh whit see the glade carpeted with steel - blue hyacinths. I love to walk on country roads, or by woodland paths, on a rain
drenched day of summer, when the is full of heavy, inky clowds, and the go briskly fresh and sweet; I love ing, when the sunset on a winter eve the West, when the pheasants
trumpeting lights beging to their roosts, and the lights begin to peep in cottage window
Such joys as these everyone; and to call the country reach because one has not the opportunity hitting and pursuing a little white ball with elaborately among the same fields test the skill and the tomper, me to be grotesque, it it were not als so distressing.
I cannot help
I cannot help feeling that games aro
things that are appropriate to the reat things that are appropriate to the rest-
less days of boyhood, when one will taltu infinite trouble and toil over anythin of the nature of a make-believe, so long as it is understood not to be work; bu simpler and quieter range of interest ought to take their placo.

FROM "HABITS.
How rare it is to meet a man who (Well, I fore; it must be taken into of that be it modifies my view." Sueh an attitude is looked upon by. actuve - minded and nergetic men as having somothing weak common it is to hear people it. Ho man ought to have the courage of hi opinions; how rare it is to find a man who will say that one ought to have from "religion
We look back upon eur life, and feel design, and that the worst ovila and had to bear have beem our faithlege terrors about what should be; and then e feel the strength that ebbed from un that our present suffermgs have never been unbearable; that there has alway heen some residue of hope; we read of ala brave men have borne intolerable of them, at the reflection that the mids and then so hard as was anticipated: mine that, whe happy if we can deterto do our best. in comes, we will try live as truly and purely as we can, to practice courage and sincerity, to belp
our fellow -sufferers along to Our fellow-sufferers along, to guard in-
nocence, to
guide faltering courage all the sweet and wholesome
joys of life, to to jenerous, to lo lift up our hearts: not to downcast and resent hell because wo
not understand everything but humbly and grateryully to at once, Wut humbly and gratefuly

JLNE 5,1913
"the Farmer's Advocate" Fashions.






 3



## The Ingle Nook.



 in atamoded muntof (rivid

We were sitting in the woods, two of us, on that delightful Saturday of which
I told you last time, just drinking in the beauty of it and catching glimpses
of the other two as they flitted about between the tree-trunks, armed with the
telescope, in search of refractory birds. They were bent on the identification of certain songster, were these two, and as, from time to time, their faces came into view, interested, eager, the thought
came to me, and I said it: "I have no sympathy whatever with those who
say that knowing about nature spoils one's appreciation of it."
"Oh, no." returned my companion, Oagry ac, returned my companion,
more one knows the more one enjoys," and her eyes followed her sister, one of the bird-hunters, as, she spoke. "knew," and so did the sister, the
She
scientific one, to whom every flower of the vicinity is a friend, known by name. but that poet did not know. How can but that poet did not know. How can
one understand the marvels. of the flower
world without dissecting one here, one there, enough to discover the wonderful
construotion end establish the interest ing relationship between plant and plant?
This, too, I have noticed a score of times : It is the unlearned in the flower story, the mere unintelligent admirers, armfül,-you have seen it as well as I ,hage bunches of trilliums and anemones draggle and die and be thrown out, all trustrated. The Understanding One, the
"botanist, "botanist," "if you will, cannot thus deee-
crate. A few flowers she may pause to cissect, a few she may carry home as a souvenir of her wanderings, but she loves
the fragile things far too much to help in the work of sweeping them of the botanists who have so rifled the woods where they once grew plentifully, of the beautiful trailing arbutus. It is the botanists who are : now agitating that steps be taken to prevent its extinction. one who knows the birds by name and
can fix the bird-song to the bird, who can calmly sit down to a meadowlark pie or wear the body of a scarlet tanager,
or the wing of a bluebird on her hat. It is the one who knows-and so loves-
who agitates to have laws passed who agitates to have laws passed for
the protection of these sweetest of wild living creatures.
And so with all nature: it is not the one who stands aside who loves and
is interested, but the one who Knows, the one who has found that acquaint anceship with the things of garden and fleld. brook and wood, can make the world more interes.
more worth living.

It is so often a source of wonder that
mothers with little children about them do not take more pains than they do to
see and know the "common." things all see and know the "common" things all
about, in order that they may "add to about, in order that they may "add to
the eyes" of the little ones, who are always so ready to be interested in bugs and birds and flowers and little Alshes.
"No time!"-Oh, dear, dear, always no "time"! Surely we ought some times to make time, and usually we can if we try. It might be worth while. A teacher whom I know, a most enthusiastic nature - lover, while teaching
in a schoolhouse near a swamp, used to in a schoolhouse near a swamp, used to
have her class, a primary, come every mave her class, a primary, come every
morning at eight oclock to get lessons-
in the swamp. Bulrushes and wild in the swamp. Bulrushes and wild
asters grew there, Joe Pye weed and asters grew there, Joe Pye weed and
boneset, trailing clematis and bitter-

How to order patterns. Order by number, giving age or meas
urement as required, and allowing a cast ten days to rerefive pattern. Pric
tate issue in which design appeared. Pro num
sweet, with watercress and arrowhoads
in the river, and turtle head and cardinai llowers along the banks; over all fitted woodpeckers and warblers, nut-
hatches and blue jays, with red-winged blackbirds calling out over the marrh,
and meadowlarks and plovers from the and meadowlarks and plovers from the
field across the way. feld across the way.
Were the children in
Were the children interested ?
One morning a friend of mine mot a
little weeping agure trailing along the roed that led past the school. "What's the matter?" asked my friend. "I
can't go to school-boo-hoo !" wailed can't go so school-boo-hoo wailed
the little disconsolate. "I've got to
stay home to get clothes made l-Boostay home
hoo !"
All of a sudden she stopped, teare arrested, face full of interest, and pointed boring filid: "There goes a kelldeer Was this teacher wasting time? Did she make a mistake in not keeping those smallin tots always down to readin' so, I am pleased to be able to tell you that three years later the principal of this school stated that he could invariably know those pupils entering his room
who had begun under Miss M., so thorwho had begun under Miss M. Mo, so thor-
oughly alert, so well-grounded in essentials were they.

Mothers may surely help in stimulatligg this jnterest as well as teachera. If there is not time to take many tripe to near, and above all things, the garden. And just here may we quotete you a low paragraphs from an article written for r. Mactawn, of the Central Experimental Farm, Ottawa. It may serve to emphasize the point that before the mothe can teach or inspire, she must be at "The writer's main purpose in prosont lng this article is to show, is poselble of nature, combines the love for natur with the practical, in an almoat Idenal opposed to the reforesto the amatour but to the nane, woman or child who grows and It and it seems scarcely posaible that one can be a true lover of nature ut allow, he propares soili, sown eneods, and cares hor plants; for it is only fim thio with nature, and become best able to anderstand and appreclate the growth foreft trees. From pernonal experionco, he finds that some plants succoed bort la require much moisture and othere com paratively little. His observation be comes keener, and he soon percoiven that
when growing in their native homes come growing in their native homen
species of planta will be found under certain conditions of soil and molsture, and others under diflerent conditions. From his experience with boec tar more than he could otherwise do, the eflect these have on this growth and development of plants. He is brought
into daily and clover relation with the into daily and closer relation with the
birds, and soon becomes familiar with their appearance, and can identify all commoner appecten.
garden, indeed, in which a robin, or at least a chippling aparrow,
does not build Its nest. Hence, there if an opportunity for nearly everyone tho has a garden, to study the habite of song delights him; then there to the mating and building of the neet to observe: the laying of the egge, and the
habits of the birds when brooding: the habits of the birds when brooding; the
hatching, feeding and rearing of the young; the vacating of the nest; and anally the flight of the fledglings. What more delightful nature studies can wo
have than these? And these are what have than these? And these are what
will draw us to the woods, where humdreds of such bird studles awalt us. "The smaller animals, also, receive share of the amateur gardener's interest and observatian. A cortain gardonet something had been digging holes 1 various places in his garden, IH this, but when night after night new holes were made, he decided to invest gate the matter further. He looked


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BALDWIN

## HOUSE DRESS

A new idea that is fast growing in
popularity.
It it a a real help and conpopilarity. It ie a real help and con-

 gament securrely in place Its doonbe the


"She Always Looks Neat!" You can' catch her loking untidy
because while about her household Baldwin llouse Dress

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LONDON, ONT
Kindly pend me your free samples
and illustrated booklet.
Name
Street
Town P.O.
about carefully for footprints, and found
mome which did not took Ilke those of a some which did not took like those of a
cat.
tion, and in in one a tille lesoser oxamination, and in one hole a taint skunk-like
odor wais detected. But what could a
oder akunk be making so many holes for ? and was known that he fed on chickens
and sucked eggs. but there were none of and sucked eggs. but there were none of
these here. Did ne feed on the roots of plants . What could he be arter? It
was diecided to asklk someone who knew, was decided to ask someone who knew,
and then the garcener learned that the
skunk-which akun- which thise turned out to beo
which occasionally kills chickens and eats eggs, and sometimes annoys by his pene-
trating odor trating odor, is really a triend of gar-
deners, and deatroys many injurious insects, among which are cutworms. And,
it this skunk had been killed and it this akunk had been ckillod and ex
amined, undoubtedly some of these in amined, undoubtedy some of theose in-
seots would have bee tound inse
onagain looking at the holes, it was Tound that they were much more numer-
ous in places where the soil was sandy ous in places where the soil was sandy
ead werm; and all gardeners know that
 study which woul never be forgotten,
and would lead to further studies of the and would lead to further studies of the
habits of animals in the fields and woods. "The amateur gardener's joys, which are perennial, reciive an anuual revival
when New Year's seed and plant cata logues come in. What pleasant hours
are spent in studying the are spent in studying the names and
deseriptions of po platus, from abronia to
zimia only the zinnia, only the lover of plants know.
And then those glorious days in spring time when the thrill and ecstasy opr lifo is in us and all about us
ing of the soil and the feel
hands !
hands ! Even though our plants may
later be destroved it in our later be destroyed by frost or crat marmy,
it is worth the labor just to teel that it is worth the labor just to feel that
contact with the warm and steaming soil in spring. Then follows the sowing o
ine seods, their germination, thinning to ensure perfect development, cultitivation to promote a healthy growth of the plant, promote a med bhich are learned by ex-
the benefts of
perine porience, and hence are never forgotten.
With mhat expectancy With what expectancy he watches the de
veloping fower buds, and when, the tender petals expand, what pleasur is derived from studying the form and color of the perfect flower
CoiThe vegotable garden furnishes ample
It for thought as well as for the table. Its economic value is only of secondary
moment to the true amateur.
He growa his vegetables mainly for the love of it,
his
and hence mates. and hence watches his crop with quite
dififerent feelings to the man wose liveli-
hood depends on tit There
 methods of studying nature that are at
once so practical and yet so delightul as gardening, for definite knowledge of
nature's methods is here ootainged by personal observation, which is one great
object of neture study, . ${ }^{\text {Not only is is the amateur gardener a }}$ a
true student of nature, but he is a pubtrue student or nature, but he is a pub-
lic benefactor as well. His garden is a
delight to all who see it. delight to all who see it. It. Impren is a
the appearance of the city, town, or place in which he dwells, and even it
everyone who attempts to follow his example does not catch his enthusiasm and
the true spirit, he will exert a very the true spirit, he will exert a very
powertul infuence for good.
(One of the most hopetul turns which Nane of the most hopeftul turn which
neture otudy has taken is the establish-
ment oi school gardens where each child ment ot school gardens where each child,
with a little garden of his own, prepares with a little garden of his own, prepares
the soil, sows the sead cares for the
plant and whe the plant, and where he should learn more
about nature from his own practical ex-
perience than could possibly be tavith perience than could possibly be taught
him by another. If his garden is in a city, or town, the child will probably be
more interested at first in tudyan growth of ornamental in slants and the per-
gaps of truit and vegetables, for these
hat are what he has been brought most in
contact with, and, in the teacher's eflort
 nite knowledge of how they grow, suc-
cess
gins
with be quicker and surer if he be gins with known rater than with un-
known objects. known objects. In the country, where
pupilis are likely to become tarmers or
farmers' wives, special attention should tarmers' wives, special attention should
be paid to economic plants, such as Wheat, oate, barley. peane, ocran, pota-
toes, grasses, and roots of various kida toos, grasses, and roots of various kinds,
and frut,
part, truere nate nere sure study will in in
porm of elementary agripart, take the form of elementary agri-
culture although the main purpose, as
elsewhere, should be to uplift the mind

Kindly in
Kinaly inform me, through your paper Durham Co., SUBSCRIBER's WIFE. According to "SSmith," there is $n o$
better plan for getting rid of ants than
the win the use of carbon bisulphide. Pour quantity into the openings of the hill, cosing them up with the foot as treat
ed. As carbon bisulphide is flammable, be careful in the use of it If the ants are in the house, and you
do not know where their hill or colony do not know where their hill or colony
is, get a couple of sponges, fill them
with and With sweetened water, and put them
where
the ants congregate. por become the anted congregate. As they
into hot the insects, Arop them into hot water and repeat until the ants
disappear.

Letter from "painsy" smplify
of your columns have beea a silent reader enjoyed them very much. ceived some very helpful hints.
I quito agree with "clloria," from
cont I hava her idea of a box for a baby have a ten-monthe that way, and and put how in one every day, and find, it much bet I aman town-hred her to be on the floor.
a farm for some have been on in a large house . I am not. We live and as I have alroady said, very have threg,
small children. much. chidren. I enjoy reading very
My husband has always lived on a farm, and is still on the same larm
he was born on. He is right then with his surroundings and the community. It stilloundo not feel "at home" in a great many ways, as I would in a
 the work, and do all our plain sowing.
and find my strength taxed to it utter most. I have no time for flowers, read tives near me, but my husband is murrounded by his and is content in every Way. Cannot you give me an idea or farm? The two letters in the Mending Basket column of March 27 th are splendid, only I do not quite agree aplen "Marie" in all her ideas. I think otten as he does, when orten to work as hard hot hals
his strength. The Good Cook "Man shall earn his bread by the sweat
of his brow.". place to work hard for hits it is a man's
omily it takes every ounco of amily. Roman's
atrength to do her work inside thent trength to do her work inside the home,
I think she is doing her duty. lieve in standing up for one's own sex
every Hoping this, my first attempt in writ ing to your collumn, will ind a place and, bring an answer that may help one
who is soreiy taxed at times. Northumberland Co., Ont. "PANSY." Pansy, I think you are just a bit over-
tired.
of course, with three small chil dren you must have plenty to do, and
it may be that wait for rest - time and leisure to read
until the that have to until the bairinese grow up a a b bit; read,
there are surely a few way there are surely a few ways by which
you can economize health and stren Let us think about it, -What about
closing up a part of that big house for the summer. Could you manage that?
And have you paint or linoleum on all your "bare" floors?
mop,
If acop, or even a homemade one, made
acording to directions in to-day's Scrap
Bag. should Bag, should simpections in thatoday's Scrap
work nart of the
altle. As for work a little. As for other dusting,
why not pack away a good many of the
knick-knacks for the knick-k.knacks for tway a good many of the
The number.
 that ? If the weather should chance to to
be hot, what about letting the little
ones run about ones run what about in letting the little
most of the timers and overalls most of the time e
ironing on then, oerything poseralls
insible eliminate
 very well without even the touch of an
iron, while working dresses and shirts
man may be straightened out sufficiently to
Uo by hanging them on the line direct
Urom

garment when worn. By using cotto
crepe (which scarcoly requires the of an iron; a sellght prosing warm one on the hems being sufficient dresses, the process may me and nigh may be simplife the me kitchen, have a zinc top put o to morke as ate, and plan your cooking is easier to make sas possible. elaborate things. A triend of mine thai town here has brought about quite revolution in this respect. Instead
pie and pudding, raisin or currant bread, with truit mos
of the time family fime, and has found that the has almost disappearedter from
take, too
her tome
toe tabie, upon which milk-soups with bie
cuite, lettuce green onions, wegetable am and sug, sugar
sliced
tomatoes, eng - salad siliced tomatoes, egg - -salad, and cold
meats, give plenty or variety, with the
thever inevitable fruit-raw, with sugar, when-
ever available-t some and less trouble,": "More says stances, so do not not know whether circumid aftord laborsanving utensile whether you ca but it you can afrord them you will not
them a great comfort. The blual them a great comport. The blue-flame
oilstove
the cooker, the washing-machina throless rubber or galvanized-tin bathtub ${ }^{\text {(whingere }}$ porcelain cannot be had), carpet-sweeper uastless mop, breac-mixer, plenty of pans all purposess who that has spoons for these would care to be without them ? refrigerator. If you balcing cabinet and may find seme ideas in in woured, you stitute paper, by Mrs. Nott, to be given, nothing happening to the contrary, in an early issue of this paper.
You are not interested in doors? That must be because yout-ot too busy to find time for any or oro interesting things,-too busy to fuss with with the vegetable gardle chickens, or few books would stimulate your intere if you can afford the money and time; good poultry=book, Bailey' "Manual of
Gardening,"
Neltit
Blancher
Blan Neighbors,", Alice Lounsberryan's "Bird to the Wild Flowers." Many othera
 these thing.
Then
there
are the neighbors,-have terests, in being interested in their inliest, sweetest, most joun nicous solt, friendthem? If so, you mast surely
touched have they have been a bit there. Perhapa cause you came tro bit afraid of you be been reserved, and you have been a bit
reserved, tooo few barriers to broak, there may be a kindly sincerity can do much. yournaps I have not answered very well
home oun tion, "How can I feel home on the farm?" but I foel more a what more to say. Personally, I love intelligent effort it is made a place for of things rather than the right balance drudgery-and II love the country animals, the birds, and the plantt, so
perhaps $I$ have a different view-point.

Dear The right spirit.
a prize ancain - As $\mathbb{M r}$. Pearson has oflered gardens $\quad$ Cor Peel County flower and hope I may be as successtul as last
I hope you may recelve at least 100 names for this competition. I cannot
understand why all the farmers and daughters do not show Mr. Pearson that they appreciate his generosity, by making as fine a flower-garden as poselcessful even though they may not be suc the pleasure they will have Thill summer watchins the fowers grow. Wishing all
the competitore ers. Competitors success with their fowIt have taken of the neme of the writer he might abveletter, not knowing whether




${ }_{\text {m }}^{1 t}$ begina to thicken, then ,turn into amal)
moulde and peot aside to become Arm Before serving, with lamb or cold ment. decorate with aprige of mint.
Cheese
Salad.-Dissolve 1 tablespoon powdered gelatine in 4 tablespoons boil
ing water; strain, then add +1 ch . cheese, ing water; strain, then add
grated, 1 pint whipped cream, and sean graving of salt. and white pepper or
poprike paprika. Turn into a wet mould and
get in a cold place to become firm (may take over night). Turn out on lettuce These and suantities will be enough dressing.
Ther the or twelve people. Cocoanut Custard.-Blend teaspoon
cornstarch in a little cold mills. Heat almost a pint of milk in a double-boiler, and stir in the cornstarch. While cook
ing, beat up 2 eggs with 2 tablespoons ing, beat up 2 eggs with 2 tablespoons sugar, pour the scalded milk over then
and return to the fire to cook until creamy. Remove, set in cold water
and stir until almost cold, then add teaspoon vanilla and $\ddagger$ cup desiccate cocoanut. Serve alone, or poured ove crumble
roons.

Whole Wheat Bread.-Seald a pint pile hen 1 pint boiled water. Cool, an yeast dissorved in it tablecpoompretite werm water. Add 1 quart whole-when four and beat well for avo minute. Se in a warm place to riso-about 2j hour in summer. When light and upongy, add enough whole - wheat flour to make dlough. Turn this out on a floured elastic. Divide fanto four loavev, placp in pans, cover, and not in a werm place for an hour. Brush tope of loaves with erate oven 46 minutes.
Fruit Potpie.-Stew any dried or camned fruit until soft, then make rich with sugar. Stow a while longor, then dro in dumplinge made as follows: sift spoons balking powder togothor, add cup rieh mill, , and beat until smooth drop by apoonfule into the bubblitic fruit and cover very tightly. Do not
open for 10 minutes, then remove the cover and serve at onco.
Moulded Prunes.-Boll 1 ib. prunes, in


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comes to you in crates of 16 sheets, ready to nail comes to you in crates of 16 sheets, ready to nail on the wall, and any
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the surface of sized fibre-board it makes a wall that is easily painted o papered. The first cost of Bishopric Wall Board is less than that of lath and plaster-it never falls off, so costs nothing for repairs-and it saves on



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 lemon, 6 drops cochineal cake - coloring
if you have it, and 1 ounce powdered gelatine dissolved in a little water. Stir all well, pour into a mould, and set in
a cool place to stiffen. When ready, turn out into a pretty glass dish, and turn out into a
serve with cream.

## Scrap Bag.

work tables.
Cover the kitchen work-table with zinc, and avoid the constant scrubbing necessary to keep a wooden table clean.

ECONOMICAL SERVERS
I you have any old pictures with plain wooden fraces stowed away in the atic, remove the pictures and substitute for them a piece of pretty chintz or firm, wooden back, Now have a dles added, and you will on and hanhave achieved very pretty and useful servers at very little expense.

A FLOOR MOP.
Slash old stockings in strips an inch wide to form a fringe. Stitch several hicknesses of this to a strip of cloth 3 fiches wide and 10 inches long. Satufasten on a good furniture polish, and the dust of hardwood or painted floors.
to clean panama hats. Sprinkle the hat with well - dampened
cornmeal let stand brush with an old nail or vegetable CARE OF SHEET-IRON STOVE. Rub the stove over once a weelk with a flannel wet with a little sweet oil or melted lard. This will clean it, and
preserve it from rust.
to Remove ice-cream stains. First sponge the stain carefully with then use'naphtha or ether for the grease. Have a pad of absorbent cotton under the spot, and rub with the naphtha in
an ever - wideniag circle to prevent ring. Use just enough naphthe to dampen the silk.
TO KEEP CORSET STEELS FROM
RUSTING.

Cut a strip of chamois-skin the width
of the inner steel, and sew it down securely on both sides, the whole length
of the steel.

> TO PREVENT MILDEW.

Put an open dish of quicklime in your damp cellar
every week. Eat EASY LAUNDERTNG.
Put contents of 1-lb. can of lye into
a 2 -gallon earthen jar. Add 3 quarta a
water and atir well.
Take 1 lb. unslaked lime or 2 or more pints slaked
lime, according to the strength, and place in a 2 -gallon jar. It unslaked,
slake by pouring on a little water, slake by pouring on a little water, and
stir as it begins to heat, add water as it begins to boil, and when If already slaked, fill the with water. and stir well. When thoroughly settler pour the clear liquid into the far with A pint of this fluid and a half cake o soap shaved thin, will be sufficient for
3 or 4 boilertuls of clothes clothes 3 or 4 hours in cold Soak the wring out before boiling. Very little this way. Oq course, only white clothes
$\qquad$
The readers of "The Advocate" will and the Baldwin Dress all that the
manufacturer claims for it ; page 1040 . Send for description. Many compli-
ments have been received. In Luck.-. The codfish," said the pro-
fessor, "lays more than a million eggs."
"It is "miwhty "It is mighty lucky for the codfish
that she dressn't have to cackle over
Wrey ceg." onid a student who came

Mending Basket.
The School Teacher. Doar Editor,-We are going to have
another discuselon, and I am anded apon the ball, or rather seet nethed to $a-$-rlling. This time the subject is to be "School teachers," and, no doubt, many of that persuasion after my scalp. but, as I have been told before, my Now, I wonder at the beginning, h nany of you who were at the Women's hought that some of in Toronto, the idea that it was a good chance to get a crack at the farmers' wives, and for instance their duty, Arthur Hawkes for instance, putting in his ploa for the
hired man, and altogether ignoring the other side of the story, as to what some women had to put up with, on account of hired men.
school teachers, Prof. McOready the think it was, saying that the school teacher was a unit by hersell in the community. The Minister had his other members working with him, but the school teacher had wobody. The men, not her equall unconth, unlettered daughters of the neighborhood no better At least that was the impression I of what was said. "Ye gods and little fishes !'
There was also a lot said about thool leachers not joining the Insti-
tute. Now why don't they ? If they think they are so much better educated go out and go out and spread their knowledge for then, and do so again, that our Institute has been in existence for about teacher to take an interest could get a I must qualify my statement now, for I mink qualify my statement now, for Nearly all the ladies who spoke seemed jority of taachers stitute, and ail seemed to think that the teacher from her pedestal of learn-
ing looked down on her ing looked down on her less educated piece in the "Globe" at the time that showed, at least, one other woman thought the same.
Now friends, that is an error that teacher is better than her a schoo course there are school teachers and school teachers. Thene are good ones and bad ones, the same as of other
people. But the girl who has "ther
But people. But the, girl who has "bool
learning" and cannot make bread or
coilt coolica a meal, maybe is mot as well educated as you are.
But it is not
I But it is not always the girl's fault. the lack of education myself, but I am bound that Mary won't. She'll have to go to school, and I don't want ber
to do the dirty work that I have to do, such as washing and scrubbing. She'll be above that ; she'll be a a lady, (save the poor girl is made be better than her mother. Papposed to and poor mother ! One girl, who went to ask about baid the lady of the terme. "Well," on what you do."" "Depends, "how ?" asked the girl, "Well, It depends on whether you make your own bed, and take care of your own room, or do your washing." "Oh," said the girl, work. Where I board they will have to take care of my room, and I will take my washing home to mother." Agan, I say, poor ueeless girl, and
poor mother i The same girl, after be
lige out picking ing out picking berries in the holidaye, exclaimed, "Oh, look at my hands
They're so brown. I'm ashamed They're so brown. I'm ashamed of
them," but one, standing by said, "Il
they they were anything else but showing
the signs of work, then have cause of work, then you mighamed of them."
Then I could tell Then I could tell you of lots of quescerning common every day things. Only
last spring I Oase last spring I was asked by one, "What
do you call those little round fowers meaning daisies.
 "dafiry." Juat here het me whisper it, friends, hat the reason some teachers don't the to supposed to have a lot to do nith cooking and housenold economy, rechors fall short, and I think they do not come because they are afraid to ohow their ignorance. Some have said to me when I have aaked them to gat ap acialify if so-and-so is to be there. She has been a teacher you know." Whil, that is all right so far. We have ad many excollonh papar, at the same 4 mm , I know of teachers who could do the 1 iterary part all right is they only neit the practical part, and the woman ho has noractical ideas if she could only explain herself.
Th some caeas the meetings are held In the afternoone when teachers cannot 3o. but in others they are held in the avenings, and, in some cases, on
Saturdays tor the convenience of the teacher and the girils at school. At one meting lately our teacher stretched
onoint, and kept a few minutes of the point, and kept a fow minutes of the noon, and let them out at three and came to the meoting late, which was better. than not coming at all. I don't
think the trustees would say a word to teacher if she did that several timee in the year, especially truatees who mow what benefita accrue from the Institute. in 'The Farmer's Advocate,'
Once quite a long while ago, Junia gave us the poor things had often to leave home when quite young and take up
onerous dutiees and stand a lot of crith cism, which is true, and she begged of the farmers' wives to take a motheri, moterest in the new eachers and invilo
them to their homes, which was aleo fight, and she also said a lot about tating them in to board and all that. forgot the other side she did not shat "Now girls, when you go off to your new school, and some kind lady takee
you into her house you into her house to board and uses
you well, see that you do a daughter's part by her ; see that you do not câuse
her any extre can avoid, for farmers' wives have lots to do ; and don't be running to partiee tour
at all haurs
treeping the poor woman awake, wondering what Tom, Dick or Harry you are with. For remember It is strange, ien't it ? that some
teachers, who fold aloof from the teachers, who hold aloof from the
farmer and his wife and daughter, because of their lack of education, have
no objection whatever to going out with the farmer's son, especially if he has a fine horse and buggy at his disposal. But orten it is the gay and giddy kind the son and settle down as useless housekeepers, and show their lack of education in practical matters. But Chere are other kinds, and the kind
like to see is the girl who is not spoiled by education; the girl who is not ashamed to do physical work when needed, and is not arraid of it elther;
the girl who, when she comes home from the girl who, when sie comes home to see
school or for holidays, is out to
tho in interest in the garden ; the, giri who an "'bake and brew, and cook and (urn her hand to any thing when needed inch $\&$ girl, in in my estimation, show
er education. It has been a false idea in the old
land and in this one too, that educa tion undits one or work, or that those
who have money don't need to work. What we want is educated workers thoist along, and make it the better for their being in it. I don't believe if
 lieve in "Blossed is work," ${ }^{1}$ 年 believe
as Count Tolstoi did, that is we did as Count Tolstoi dia, that if we and
anysical labor on-hat of the day and
Thok the other hall for educational and ccreational purposes,
pite deal. I have never had teachers
one who came last summer teacher of D
to describe:
a summer girl. A lassie came to visit us
From far acrose the tas From far across the sea,
And stayed awhile in Canada Where we delight to be.
She was not just the general sort
And didmer not gee in you kerery man
A sort of summer beau.
Eer head was screwed the proper way And tightly fixed in place Her brain was where it ouggi
And comely was her face.
Her thoughts were as a maiden's chaste $\begin{aligned} & \text { Surpasing fresh and fair, } \\ & \text { Her mind was stored with useful lore, }\end{aligned}$ And coal-black was her hair.
She was not like the ordimary run Of gummer girle from town, But orten worked out in the sum
So that she might get brown.
She hood the turnips in the field And holped to rake the hayy, on many a summer day.
She gathered fruit, and gathered egge,
And halped
, And halped to shell the peas, cowa And other jobsed like theses.

She ted the horses to the Aeld And rode upon their backta, She lectured in our Tnstltuto
And told us many facts.
Of how to do this thing, or that, Of how to brew and bake,
Of how to cook in pepar Of how to cook in papar bags,
And ice a fancy calke.

Of course she took some reot botween And many an hour did pase fowers Just lying mong'st the
or out upon the grase.

But summer went, and so didd she, And we were left to mourn, And now another summores co
But if you don't. ob summer, girl
We hope you'll get your due,
And may you often think of us
As we will think of you. ${ }_{\text {GREYBIRD }}$
Grey Coo, Ont.
[This is an interesting pubjeot, and has been dealt with in an interesting manner. Has
say about it ? er's side of the story ?]

## 천 Ceres

am the duybiler darman.
In the duak I dream, in the wind I run ;
I touch the fields with a groening fire , When over hill comes the silver rain,
I spring with joy of the sporinging grain The farm land loves me, the acres ano Cours I wave my hand Over tha furrows I wave my hand,
And gladnoss walks through the plent and glacnass wal
ous land.
In all the valleys at gotden morn
$\mathbf{M y}$ garments sweep
with the
The laughing meadows from hill to sea
When foamheads break in the surging
I race $\begin{gathered}\text { rye } \\ \text { with } \\ \text { billow against the aky }\end{gathered}$
Lirting the song of the mother kind, Then when the far-spent rivers croon To the rising shield of the harvest
moon,
With all the good well won from harm I come at last to the reaper's armI sink to the ground, my senses dim,
And I five my life for a gilt to tim.

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canada.
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${ }_{8}^{\text {ELEGTMIC }}$ Whiel co
ot norman s. Enox 47 Wellington Stroet Eastern Toronto, Ont.

[^1]Aousha Machree, now jees lot him be, or the poor little heart of him's over TTis the greem or ovar he's tarin"
or carin'
hey drow him nobody' And now he has nowhere to beatiful day, Ho's Srie) Yet still to the bone
U C ,
Eae ye ever a silght of an elderly frog
That site by the side of the pond in the eppine side of the pond in And calle to his his
Come on out or ${ }^{\circ}$
Come on out
Bing
Acuabhla Mech
Acuablia Machree now For the poor uittle heart of him's over TTis the green.
For the love of of thatid
They drove him away one beautiful da And now he has nowhere to go or
Ohen hone Yet still to the bone
He's Iriteh, Accuth


## SEEDS

Ready for Prompt Shipment - Bags Free. If wanted by mail, add 5 c per 1 l
to prices quoted.
Bed -
 Proved Leamini White Cap Yeliow

Buckwheat, Siverhill soc
Miliet, choice sample, 81.51
Hungarlian, choice sample 5.50
Afraifa, choice sample No. 1
Early Amber Sugar Cane, 5c per lib.
Hairy or Sand Vetch.... 10 c .. Dwr. EEeser Rape....
Thouand Heade
 Turnip for fall feeding, Greystone, a bargain in potatoes Choice Early Ohio fat $\$ 1.25$ per_bag. - Ibpargain in onion sets


GEO. KEITH \& SONS
Seed Merciants Since 1866

News of the Week.

## canadian.

An Armory, to cost $\$ 1,000,000$, to be used exclusively by the Queen's own Regl
ment, is to be built in Toronto by Gory ornment order. . . .
The great Presbyterian Congross was
opened in Massey Hall,
Toronto, on June 1s
hat majority of the Dominion Senate
 that the Navy Riia ghould he submilted o the judgment of the country.
will be closed on of Manil
Work on the Trent Valley Canal will bo bogun in the near futuri, on the woo-
tion between Lake Simcoe and the Goor gian Bay via the Severan River.
british and formicin
Lord Avebury, better known as Str
John Lubbock, banker tician, and author of many books, opilcluding "Pleasures of Life," and "UTose or
Lheo," died in London, Eng., laet week at the age of 79 .

Successful wireless telephone commun cation has been established between Ber
lin and Vienna, a distance of 375 miles.

The German vessel, The Imperator, the
largest passenger steamship ever built,

will | will start on her maiden trip to New |
| :--- |
| York on June |
| 1 th. All | York on June 11th. All the berths fo

the return trip have been talken

Mrs. Pankhurst was re-arrested las week and put in Holloway jail.

A loan of $\$ 500,000,000$ is being ratied in London to build 10,000 miles of rail
parties in China, the Republicann the two parties in China, the Republicans led by
Yuan Shi Kai, and the recognize Dr. Sun as their head, Dr. Sho has written a letter warning the Aun
nations of the danger to chin nations of the danger to China iil the
Quintuple Power Lomupuple Power loan of $\$ 125,000,000$ is
completed. This loan was agreed to and signed by Yuan and his Cabinet
mithout the to approval of Parliament.

The Labor party was returned to power
by the elections which by the elections which took place in
Australia May 31st.

The British Ambassador and Secretary of State Bryan, on May 31st, sigreary a
renewal of the arbitrat and twen or the arbitration treaty be-
States Great Britain and the United

A good aneccote is told of the two
calebrated barristers, Ballour and the two
kine. Balfour's style Cine. Balfour's style was gorgeously
verbase : Empkine's was crisp Oroas. Erskine's was crisp and vig-
Baus. Balfour's ankle was bandaged. "Why, "Why,
what is the
 was taking a romantic ramble in my
brother's garden," Balfour said ; "and
on
 I had to climb over it, by which I
grazed the epidermis srazed the epidermis of my low, which
has caused a slight extravesation blood.", "You may extravasation of thene
stars," ronk lucky stars,", replied May thank yotir lucky
brother's seratine, "that your Srother's gate was not as lofty as your
style, or you would have bremer neck.". -Exchange.
not have broken your

The readers of "The Advocate" will
find the Baldwin Dress manuacturer claims tor it: that the Send for description. Many compli-
ments have been received.

## Dragon-files.

By Madison Cawei.
You, who put oft the waten-worm to rise,
Reborn, with win
out ad
Vour lerval out ad. Change, with What Marval bodias to invade our skies, And made you beautiful for mortar eyes?
hutles of summar, where the liliea Their languid leaves and sleepy pods Weaving your colored thread for day, hours, You come and go in needle-lile gray Now on a blade of grass, or pod, as
still As some thin shred of heaven, motionA point, a
until azure streak, you poise,
prese Aigmont summer would ex-
at fails through utter indolance of will.
Then suddenly, as if the air had news, You vibrate intelligence of faory things Searching the suniligitt with diephenes Gathering togetiger many filmy clues.

Clues, that the subject mind, in par Invisible, but divine,
The mote, that goldens down the these;The long lines, And the slow And the slow musk some fragile flower
untwines.

Could we but follow I and the thread Haply through them again we might That land of Faary, youth left far be Lost in the in the wonder-world of make-be Where Childhood dwells and Happiness

And, undelayed, far, far beyond this
And $\underset{\text { quiet }}{\text { trail. }}$ water, on the dream-road
come on that realm of fancy, soul-con-
cealed.
Where we should find, as in the faery The cap through which all Elfland is
-revealed.

## The Car.

To ride in it was hand touring car
He ran across a plece of glass-
Bill- 1414 an
'twas hook hriends out for a ride
twas good to be alive. Bill-\$40.95.

The finest on a little tour
He stopped too quicly and stripped the
gears,
Bill- $\$ 90.51$.
He took his wife downtown to shep. He jammed into car fare was great. Bill-\$278.
up oyer inquired Mr. Rilley, glancing "what is the door of the post-office, 'MDCCCXCXITI' ?"' "They mean eighteen hundred an
they're carryin't it sthis spelline you thot they're carryin'
tirely too far ?",

In School
have more than oner-'The right to
gamy. What is called
gamy. What is it when only willed poly Willy- a man ?" , when only one wif

## "1900" Washer Sent FREE

> Pn send you a Washer on 30 days $\begin{aligned} & \text { expetise and risk. Does not cost } \\ & \text { you a cent. My machines mast }\end{aligned}$
-or conidn't make this offer year
TPay-me"-as-it-saves - you" plan.
Address me personilly, w. c .
$\begin{aligned} & \text { Address me personaly, W. C. } \\ & \text { YORRSN, Manage "1900" Washer } \\ & \text { Co. } 357 \text { Yonge St., Toronto, Can. }\end{aligned}$

Farm For Sale 85 acres in arkona fruit belt


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## 

 W. Niertioement will be Finsertod under thic heme. TEMS - Tume ceat por word ent hertion
 AM For Vancouver ISLAND-Canada'd

 FOR Rooct Col Colle pupplee withefor particulara:
 Catu' Acoccation, 5 A Alioway Ave, Wininiper



## POUNTRY Conat

Condened advertiemente oill be inexied

 Miny dyotheament under the beadige Parten




S.-C. White Leghorns ${ }^{\text {Gutratat }}$ Lexing
trom speatal matings, 81 per 15; 84 per 109.
GEO, D. FLETCHER, ERIN, ONT.


Vespers. The robins call me sweet and shrill.
"Come out and
fare afild The oune hat neared the waita; The shadows slip down wure and haltil,
But in our meadow wide and weti, But in our meadow wide and wet
Therés half an hour of sumstrne yet

would not yield? $\begin{aligned} & \text { cross the road and through the lane } \\ & \text { Where buttercups } \\ & \text { grow tall and }\end{aligned}$ With bright, washed in last might's Tatn, -
Beyond the one bars I gain
An angle of the rude An angle of the rude rail-fence, Wheat-feld and 'pastured stretch sight.
The cows, with stumbling tread and Oniow, anter one come straggling by, And many a yellow, head falls low, And many a dalay's scattered snow.
Where the unheoding footsteps pose Is irrushed and blackened in the ase With brier and rue that trampled lie,
sweet sounds with sweeter blend and
 Wích wayside berry-bush alive Whth myriad bees, humb like a hive; The frogs are loud in ditch and pool,
And sangs
unleearned of court of school
Junés troubadours' all around me omewhere beneath the meadow's veil The peewee's brooding notees begin;
The sparrows chirp from rail to rail ; The sparrows chirp from rail to Above the bickering swallows sail,
Or skim the green hall-taseoled With plaintive cry ; and at my feet
A cricket tunes his mandolin.
High-perched, a master-minstrel proud, IIgh-perched, a mastar-minstrol proud,
The red-winged blackbird pipes and One moment jubiliant and lovd, He next, to sudden silence vowod,
Soeks cover in the marah below': Seaks cover in the marsh below,
Solt winds along the rusheo blown,
And like a whisper twilight falle.

What Lies at the Root "Billy and I go upon these wayside
cambes after the quiet beauty of the rambles, atter the quiet beauty of the
Her tone was halif laughing hale vexed. Wh had not much more be The
It'such yp your old nag, dear, and
gomewhere., .ot's' get somemhere" yhe suggested, Poor Billy don't think so, but I didd
got him to trot a little. It waen't much use. Holen simply irreted until I had an apful nervous feeling as if
was trying to push fat old Billy along by main force
To cap the climax, he cast a aboo. II purpose, in revenge for all An way, it delaley us a hall-hour at the black-
smith That hall-hour killed any foy that might have survived the things that had
gone before. Helen wouldn't be happy
 out it will be with Ned and the car.
She has no time nor patience for any pleasure attained more slowly than
thirty miles an hour. thirty miles an hour.
Yet, after all, Helen is to be pitited. She is but one of many who in their
mad ruhat after pleasure' pass unheoded mad rush after pleasure pass unhededed
on the way the very thing they sooks. For true it is to-day as over, that
"Patience, lies at the root of all
"reat and pleasure, As Auskine has said, "Alert
readiness for action or decision is fine
res. In its place; but it needs mixed. in
hat patience that can enjoy leisurely that patience that can enjoy leisuroly
things: that can stop to see the ofower
oo beaty or of need by the wayside, as as of beauty or of need by the waysider, as
well as aspreciate the splendid goal at
the end."-Onward.
 than he is, you have a better home,
more toys, and more pocket money.".
Johnie.. "Yes. I Know but be can Johnnie--
wiggle his

English Howters: The following quotatione frome Brition
examination papers and themes, ridicurexamination papars, and hhemes, rialour from many
perience :
The Seven Great, Powers of Europe are gravity, electricity, steam, gas, fy-
Wheolso
and
motors, and Mrr. Tloyd Oeorge.
Queen Elizabeth was tall and thin, but During the
 dlowed to take place.
Henry VIII gained the title Fidel De fensor because he was so faithful to $A$ Kelt
dreses Cave canam.-Beware leat I alnes nothing in it it the Popptysive in one A vacuum is an empty space full of nothing but Germans (germs?)
A Conservative is ( A Conservative is a sort of grreenhouse
where you vook at thomoon.
Pantiamente asambled fin . Soptamber and diseembled in Jounury. The Habeas Corpurs act was that no
one noed stay in prison longer then the one ned
liked
Woil
Wolte gained fame by storming the helights of Abraham Lincolth. Whare was Magna Charta signed? At
Where was Mary, Queen of Scote born,
and why waan she buorn of Soote born.
wide born at Linlithgow bocause har whib born at Linilthgow beouuse her
mother happened to be thare at the
Wellington threw up ea
hind him as he retrated.
The religion of the people of the Ganges Delte makes them cloan, but,
like other things, there aro some who do not keep the rulee They Hive th
opene and frree liie excopt for the fow open and the life except for tho fow
wiswams which are inhenited by the wigwams. Which are inhebitiod by the
natives. These have a funny oustom not throwing their
of babee
ang into the Ganges as a sacritice th Buadac. The Hilitdue ganerally are a hardy
race, but prefer to worehip in thell templos rather than follow much manuan labor; what 1 ittle they do 18 mostly
carrying luggage and such like
 rest or
ling abo
palms.
The plaing of siberia are roemed over by the lynx and the larynx.
Describe the process and the apparatut
used. Answer: The objeot of dirtille
tion ts the making of whishey. You
have a box and $a$ glass tube at one
end and another at the other and, and It you pour watar in at the one ond it
comee out whikey at the other
the rmy, at ine movies," ana and aatiod his mother the signolfcance of
"Indians," his mother answered, "at ways paint thelir taces helore golng ou
the warpath-before escapling and tome the waing and murdering,"
hawking and murdering."
The next evening, alter dinnar, as mother entertained in the parlor biod daughter's young man, Tommy ruabe
downstairs wido-ayed with tricght downstairs wide-eyed with fright. ."Tet got out of this quick? sistar io going on the warpath

No Mourper Left.-"I ate a worm, said the 1 litle tot in the kindergarto
 the proceeding. "Why, Just think,", ahe
said, as a final argument, "how bally the mamma worm felt to have her littlo
baby eaten up.r "'II ate she's mamma.' too," was the
triumphant rejoinder that proved too much. for the teacher.-Harper's Magan
zine.

In Their Steps.-"Look here, now Harold." gaid a flather to his ilet ite son,
who was naughty, "it you dom't say your prayers you won't go to Hoaven." "I don't want to go to Heaven," you and mother." - New Orleans Times-
Democrat.

## Barn Roofing

"Eastlake" Metallic Shingles
Don't Forget when yout Want a good roofing to ase Shingles.
They protect you from Fire, Lightring and Leakes; coated steel sheet.
Our patent interlocking ide ouints make an absoside joints mate an abor proof roofing
"EASTLAKE" Metallic Shingles neverneed repairs.


ROQFINE Co. Limited MANU A CTHRER
$1+1+1+1+1+1+1+1+1+10$
Do you remember in Didisem tote" Martin Chuzlewit", the beed Pinch loo her brother Jom?
How he Autuerd in and out in Wer dianty way collecting and prei paring the ingedients, how exted
 This tall told in Dichene theirec


 ${ }^{2}+\frac{1}{2}$ platean
$\frac{+}{4}$



Post-mortem Chat.-Twe Irithmee wer
working on the roof of working on the roor of a buile a misestop and 1611 to the ground. The othet leenen of and called
"Are yez dead or allve, Muke ?" "O'Im alive," said Mike, teobly. "Sure you're such a har ot don" "'Wall, thon, of must be doend," mald "Mike,"' for yez would never, dane" to eall me a 11
Record.

## New Hose Free

Send for six pairs of Cotton or Cashmere Holeproof Hose Six pairs guaranteed to wear six months. If any wear, tear or break a thread in six months, you get new hose Free! light, medium, and the heavier weights. All guaranteed.

## Six guarantee coupons with every six pairs.

More than a million people in the nose from us ind Canada now buy their hose from us in this way. They save all The darning they formerly had to do. They save a year keep their hose whole forever Six pairs for men cost $\$ 1.50$ to $\$ 3$ a six pairs for women cost from $\$ 2$ to $\$ 3$ a box. Three pairs of children's Holeproof Stockings, guaranteed three months, cost $\$ 1$.
,Think What It Means!
Think what such hose-at the price of common hose-save in time; trouble and money. Forget the darning. Forget hurtful darned places that make the feet sore. Forget the whole question of hosiery by simply buying two boxes a yearl. Our 13th Year We have been selling fine hose in this that short time we have come to be the largest house of our kind in existence. Our success is due solely to making The same people buy people prefer The same people buy them again and gain because of their wonexperience, $95 \%$ of our output has outlasted the six months' guarantee. That mounts to $24,700,000$ pairs.
"Wear Holepprcof H Ose and End the Mend"

## If About to Buy an Engine

 Grinder, Cutting Box or Sawing OutfitSit right down and write for our catalogue describing our differ-
ent lines. We build a complete ent lines. We build a complete line, including Gas, Producer
Gas, Gasoline, Kerosene and Gas, Gasoline, Kerosene and
Distillate Engines, from 2 to $400 \mathrm{~h} .-\mathrm{p}$. Our factory is equipped
with the latest and best machinwith the latest and best machin-
ery and tools. Our engines are ery and tools. Our engines are
a credit to the Canadian gasoline engine inndustry. They are all over Canada

## Barrie

Offer the farmer reliable help at low cost. They do lots of things, such as pumping water, grinding grain, sawing wood, etc., faster and better than a man can do them. They are built to withstand hard work and bad weather. They start easily. And they will run for hours without attention.
We guarantee the lowest possible fuel consumption on gasoline and


## Our \$60,000 Inspection

 insures this quality in every stitch. We pay that amount in salaries to inspectors yearly. They examine each pair twice over, carefully, to see that it lacks every possible flaw. We do this to protect ourselves as well as to insure the better way that we know to make ho siery, and there are no better hose to be had. Don't you think that our million customers prove it?The figures above refer to our business
in both Canada and the United States.

## Send the Coupon Send today for six pairs of these hose to try. See what they save. Note the comfort thy. cive. Send the mone. Note iny convoriort tway Mariz the grade, size ind ant conventent way.

 Holeproof Hosiery $C$ as well as the wear. Holeprcoffiosiong
Matioxiccu (ox Gentlemen: I excloses. - For which
send me one box of Holeproof Hose for or childaren) (state whether for men, women Weight... Name..
Street.
$\qquad$
$\qquad$

Tell us the size of engine or outfit you want, and we will quote you can't go by us.
The Canada Producer \& Gas Engine Co., Limited

Barrie, Ontario, Canada
James Rae, Medicine
chinery Andersongency, Montreal; 'The TuadhopeEdmonton, Co., Lettd, Winnipeg, Calgary,
Regina.

The Spice of Life.
Her Ideal.-The Inventor-"That ma-
chine can do the work of Visitor-"Gee whiz ! My wife." to have married it !"-Puck. The Costly Age.-Mrs. Hibrow-"Doin't
you find the Stone Age intereating ${ }^{\text {?", }}$ Mrs. Lobrow-'"Yes, indeed ! Willie's just that age now; but its awfully
hard on the windows !"-Brooklin Life

Rare.-"Brown volunteeryd to lend me money." "Did you take it ?"
"No. That sort of friendship is tod
good to lose. Detroit Free Press

Naturally.-"What happens when yo put the dollar before the man ?" bawled
the candidate. "The man goes after it," answered an old. farmer in the crowd.-Louisville
Courier-Journal. Wise.-'"Did the doctor diagnose your case ?";
"How long did it take?
suit."
Forwith.-Author-'" The very first
cepted., sent to a magazine was ac-
Young Friend-"Was it poetry or
prose?")
Author-'"Prose. It was a check for
a year's subscription.-Boston Trans-
cript.

A little girl was lost on the street and was brought into the police-station. The officers tried in every way to learn
her name. Finally ong of the offcears her name. Finally ong of the officars
said : "Tell me, little girl, what name does your mother call your father ?'
"Why," responded the child
"Why," responded the child, innocent-
ly, "she don't call him any names ; she

## likes him

Tact.-The president of a small college
was visiting the little town that was visiting the little town that had
been his former home, and had been asked to address an ane, and had been
former notience of his asked a. address an audience of his
former neighbors. In order to assure
them that his arear them that his career had not caused
him to put on airs, he hegan his him to put on airs, he began his
address thus : "'My dear friends-I won't call you


## Trade Topic

Gavadian national exhibition PRIZE LIST.-The prize list of the Canadian National Exhibition, Toronto, August 23 rd to September 8th, is being distributed, and it shows that the management have given special attention to the Agricultural Department generally, and to the encouragement of the smaller exhibitor in particular. In cattle, more
money is given to both the beef and dairy classes, and the list has been extended so that in some classes as many
as eight prizes are viven small breeder with a good animal, is practically sure of recouping, at least a
part of the expense of shimin. ronto. More money is also given ToHorticulture, Floriculture, and Foultry The entire list totals $\$ 55.000$, and as
no prizes are every dollar of this goes to the products
of the home, the school
 trom Ene Irish Guards, and one high class
other Chicago. Whitile of Conway's bane ot from
Burning of the spectacle. .'Th Burning of Rome," it is enough, to say
that it will he stazed by John Hender-
son, of Thibland. who has
hiry

The Hermit Thrush. The cold wind weaves
Through shifting leaves, Through shifting leaves,
Green shade and sunlight yellowAnd mottled sunilight yellow : Where through the-maze or wooded ways Resounds his, calling mellow-
His distant calling mollow, His distant calling mellow
His faint and far-of song
Hark ! where he calls, Dim waterfalls
With mingled music hollow And down the glon He calls again, Up the green ways of The faery ways of spring. - McClure

Browsings Among the Books.
BREAKING THEO BROE 1088. bheaking the brown colt When the mob had been put througb
the yards, all the unbroken horses were given into the Quiet Stockman's eare, end for the next week or two the stockyard became the only place of real interest; for the homestend, waiting for
the Wet to lift, had settled down to store lists, fencing, and studbooks. It was not the horses alone that wer of interest at the yards; the calm, fearless, sell-reliant man who was handling daunted or disheartened him; Nothing those hours spent on the stock-yard I learnt to know the the spreading tree, I learnt to know the Quiet Stockman for
the man he was. If anyone would know the inner cha ecter of a fellow-man, let him put him to horse-breaking, and he will soon know
the best or the worst of him watch him handling of wim. Let him colt, and if he is steadiast of purpose, just, brave, and true-hearted, it will all
be revealed; but ip he lacks selfbe revealed; but if he lacks sell-restraint,
or is cowardly, shirty, or mean-sinited he will do well to avoid the test, for the horse will betray him.
Jack's horse-breaki
supremacy of mind over mind battle for over matter-a long course of careful was broken, but all bent which nothing of a master. but all bent to the control were alike; carefully he studied horses cording: to its nature-using the whip freely with some, and with others not at all; coercing, coaxing, or humoring, ways for indelligent obedience, not cot cowed stupidity, he appeared at times to be almost reasoning with the brute mind,
as he helped it to solve the problems as he helped it to solve the problems of
its schooling; penetrating dull stupidity with patient reiteration, or wearing down stubborn opposition with steady, unavering persistence, and always reward dreedom. Step by step, the training proceeded p perfect trust, and confidence beitweer horse and man, without which nothing After that, in orderly succession, the rest followed: toleration of handling, oeining, mouthing, leading on foot and and mounting. ond thing at a time and nothing new until the old was so perfected that when all was ready for
the mounting-from a spectacular point the mounting-from a spectacular point
of view-the mounting was generally disappointing. Just a little rearing and ceptance of this a quiet, trusting acHalf a dozen horses order of things. once, and, as with children at school. and everyly got ahead of the others; and keener in the interest grew keener the horses. At the end indival character of announced that he was "going to catch
the brown worth seeing," he said; and from the Quiet Stockman that was from the as a very pressing invitation.




Put the rest in the bank. You'll find yourself in the best of company - your troubles lighter-your purse heavier-if you buy a Fordand join the happy throng of those who know car comfort plus service satisfaction

More than $\mathbf{2 7 5 , 0 0 0}$ Fords now in service-con vincing evidence of their wonderful merit. Runabout, $\$ 675$; Touring Car, $\$ 750$; Town Car, $\$ 1,000$-f.o.b. Walkerville with all equipment. Get interesting Ford Fimes -from Dept. G., Walkerville factory. Ford Motor Company of Canada, Limited.

When Writing Mention "The Advocate"
the compoling power of tho man's mill forced itself into the brute mind; and,
bending to that will, the wild leaps and plunges took on a vague suggestion of obedience-a going WITH the rope, not against it; that was all. An erratic going, perhaps, but enough to tell that
the horse had acknowledged a master. That was all Jack asked for at first, and, satisfed, he relared his muecles, and as the rope slackened the horse
turned and faced him; and the marvel was how quickly it was all over. But something was to follow, that once seen could never be forgotten-the advance of the man to the horse.
With barely perceptible movement, the
man's hands stole along the rese at snail's pace. Never hurrying, never stopping, they slid on, the colt watching them as though mesmerized. When within reach of the dilated nostrils, they paused and waited and slowly the sensitive
head came forward snuffing, more in bewilderment than fear at this new wonder, and as the dark, twitching muzzle
brushed the hands, the head drew sharpbrushed the hands, the head drew sharpment with greater confidence.
Three or four times the quivering nos
trils came back to the hands before they trils came back to the hands before they
stirred, then one lifted slowly and lay stirred, then one lifted slowly and lay
on the muzzle, warm and strong and comforting, while the other, creeping up the rope, slipped on to the glossy neck.
and the catching was over. and the catching was over
For a intle while there was some gen-
tle patting and fondling, to ing accompaniment of worda murmurstanding still with twitching ears the
while. while. Then came the test of the vic
tory-the test of the man's power and the creature's intelligence. The horse was to go to the man, at the man's
bidding alone, without force or coercion bidding alone, without force or coercion
"The better they are, the sooner you learn 'em that," was one of Jack's pet theories, while his proudest boast-his

Before Haying and Harvest



 $\underset{\substack{\text { STEEL } \\ \text { FARM }}}{ }$

GATES
You run no risk of any kind if you
pürchase Clay Gates. We guarantee them absolutely. You can try them
or 60 des. Hor 60 days free. Clay Gates are
 casy to get up. Extremely iig in
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$\left\lvert\, \begin{aligned} & \text { only boist, perhaps }- \text { was that herd } \\ & \text { never been beaten on that yet." }\end{aligned}\right.$ if "They have to come, soonerer or later if you stick at "em," he had said when
I marvelled at first to see the greet creatures come obediently see the grea his tongue or fingers. So far, in click his wide experience, the latest had been the
third more frequently it was a matter of
hoter hous, sometimes barely an hour, while now and then-incredulous as it mas
seem to the layman-only minutes. Ten minutes before Jack put the brown
colt to the test, it ha do terrifed, plunging creature he stepped back to try its intelligence
and submission, his an and submission, his face was confiden Moving tant.
one hang slowly backwards, he held out
ond the hand that had kindness and comfort-and proved a finger and thumb, clicked his tongue in ${ }^{\text {a murmur of invitation. }}$
tion at the sound, and ard to attenreached out to investigate, the heal fingers repeated the invitation, and with
out oreturther hesitation the magnificen
creature went forward creaure went forward obediently unti
the hand was once more resting dark nuzzle.
The trusting beauty of the surrender seemed to break some spell that had
held us silent since the begind
 beauty ${ }^{\prime \prime}$ I I cried, unconsciously putting
my admiration But Jack no into a question. Lions. Jack no longer objected to ques
He turned towards us with shining eyes. '"There's not with soft him," he said, puling not many 1 lik
flexible ene or fexible, ears, "you could learn him any
thing." It seemed so, for after trying to solve Lhe problem of the roller and bit wive
his tongue when it was put into hit mouth, he accepted the mystery with
quiet, intelligent trust: and quiet, intelligent trust; and as soon as
nee was treed trom it, almost courted
further te it
 entered the yard, the ears went back,
and the whites of the one but me for a while," Jack said, with a strange ring of ownership in his voice,
telling that it is a good thing to have horse that is yours, and yours to have
Within ed and ritden, "owrownie" was mount-
Ginal inspection to the house for
 Helll let you touch him now," Jack
said; and atter a snuffing in hands, the beautiful creature submitted
to their caresses to their caresses.
Dan looked
Den looked at him with approving
eyes. $\quad$ TTo think she had the choose him, too, out of all the that crowd,",
he said "WE always call it instinct, I think,"
 Dandy politely suggested, "It might be
knowledge." Then the Quiet Stockman gave his
opinion, making it very clear that he Conion, making it very clear that he no
Tonger felt that women had nothing in
common with men

 the Austr, Never," an account of life in
tene As Guman (Gush country, by Mrs.

## 2020 Biscuits

 Coore company were having a guessing
contest on their "Wonder Working"
Othello biscuits it would bake with one firepot
of coal. Thinking that 1 might be the lucky
one I
on answered it, and made 2,016 biscuits. I I and made a guess of
time it mot think at the time it would be possible to bake tha
many, but as they advertised it ha
Man "Wonder Worker," I thoughed It as
take a chance, and wait int company ance, and was informed by the
haked the lucky one, as the


 Yetrolia. ont.


Banish Kerosene and Hand Pumping Disard the dirty, dangerous lamps
and thyve clean, safe foomemades
 HOME BLECRIC \& WAFBR SYMTE Send at once for full desciption,
speciat price and terms of payment. Writr to-Dav
The llome Electric Light \& Water Systems welland, ontario
CONNOR
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H ERE is a washer that is fully guar1 anteed. A big manufacturing corthe dealers who sell it are pledged to re-
fund the full fund the full purchase price if any woman
who buys it says she is not cymotetlon watisfied. Under these' conditions, you run absolutely
no risk in trying no risk in trying
the Connor Ball
Bearing Whe Bearing Washer.
Iftit doossht do
the washing in half the ushung in tim clothes spotlessly clean and without injery, That's faid keep it? Write for descrip-
J.H.Connor \& Son, Lhed OHawa, On

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An ordinary furnace has an empty space becween the fireKelsey Warm Air Generator is different.

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All the heat from the coal is concentrated in these heavy tubes. Once this great mass of
iron becomes hot it stays so for Once this great mass of tion," tells all albout these Zi
筑
The James Smart Mfg. Co. Ltd BROGKVILLE, ONT
hours and hours and maintains throughout the building.
Making these tubes Zig-Zag. increases their heating surface waste to all parts of the house
With the Kelser Cen heatins of the attic berator the the cold side of the house is n 0 nore a problem than the heatin of the down-stairs living rooms. Our booklet, in Modern Heating and Ventila



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Reforestation in Simcoe Co.
Wm. J. Holden, Collingwood, has just inished planting an, extensive plot of rees to demonstrate the possibility area planted includes six acres of land along the bank of the Pretty River, and required 16,000 trees. The trees were supplied by the Provincial Forestry Department, in charge of Prof. E. J. Zavitz, and planting operations were directed by J. Laughland, District Representative of the Department of Agrities planted included: Scotch' pine white pine, cedar, black walnut, butternut, chestnut, black locust, white ash, white maple, and elm. The trees were care fully planted, four feet apart each way and with the favorable weather thes have already taken root and commenced In every part of the Province there is treams and rough hillsides ort sandy plains, and which will remain in the cature as it has in the past in this on it. Anyone with an acre or two o ter than plant trees on it.

## WHY?

For a whole solid hour the captain Juties of a Soldier,", and he thought that now the time had come for
the results of his discourse. Casting his eye around the room he victim. Private Nurphy as his "Private Murphy," he asked, "why
should a soldier be ready to die for his "untry?"
The Irishman scratched his head for a While; then an ingratiating and enlight-
ning smile flitted across his face ening
"Sure,
smile fitted
Captain,"

## $\begin{array}{ll}\text { ERTILE } & \text { CANADIAN } \\ \text { ARMS } & \text { NORTHERN }\end{array}$ RAILWAY



## A SETTLER'S SUCCESS

The Svestervile Bard of Trade
Dear silitien yoarr aso I came here from shamville, Outbece When I reached my







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and
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Please Mention The Advocate

## Gossip.

clydesdales at glasgow.
Clydesdales were well represented st the fifty-sixth annual live-stock show at Glasgow; May 18th. In the broodmare class, J. \& W. Meiklam won with Myrene, Stephen Mitchell second with Sweet Molody, In the three-year-old lass, J. E. Kerr's Phyllis, by Royal Norte, was irst, and stephen Mitchell's Nannie, by Apukwa, seqond. In two-year-old fillies, alrst and second went to Wm. Dunlop with Dunure Chomen and Dunure Toby, both by Baron of Buchlyvie. In yearling fillies, Andrew Brooks led with Lady Betty; Wm. Tuin lop, second with Glad Eye. The medal went to Dunlop's Dunure Chosen year-old female championship to J. E. Kerr Phyllis. In the three-year-old stallion class, Wm. Dunlop won with The Dunure Becond was W. M. Ritchie's Prince of Prince Palatine, by Baron of Buchlyvie In two-year-olds, Mr. Dunlop led with Dunure Stephen, by Baron of Buchlyvie
and was second with Dunure Megne Apukwa. In yearling colts, John Leekio won with a son of Dunure Footprint The championship for males went to
Dunure Stephen, with The Dunure re Dunure Stephen, with The Dunure
serve.

Some Irish-bred Aberdeen-Angus atoc At the dispersal sale at Eshott Hall, the fifteen-year-old cow, Pride 10th of Tully nally, brought 20 guineas. A youn bull cali, by Eliphaz, brought 10 guineas. Gerace, sold for 24 guineas. The cow Proud Grace of Eshott, of the Pride family, brought 215 guineas; the Georgina cow, Gera, 140 guineas; the Grace, 130 and -150 guineas, respectiv?ly: the yearling heifers, Gaiety and Graceful. 170 and 100 guineas, while the bull. Grace of Ballendolloch whe the


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est grains can be handled
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Gossip.
At a recent dispersion sale of the Ferguson, Aberdeenshire, the most nota-
ble feature was the sale of the two-year old heifer, Augusta's Emblem, by Proud Emblem, to Wm. Duthie, Collynie, for
240 guineas. Her dam, Lady Augusta 240 guineas. Hor dam, Lady Augusta
3rd, by Good Fortune, was bred by Mrs Walsh, County of Cavan, Ireland, and the first calf she bred was Augusta's
Choice, sold for '260 guineas, while sevChoice, sold for 260 guineas, while sev-
eral others brought three-figure prices.
a great shorthorn dispersion As announced elsewhere in this issue, ported and home herd of high-class imbelonging to T. E. \& H. C. Robson, Ilderton, Ont., together with a choice
selection from the selection from the Springhurst herd of
Harry Smith, Exeter, Ont., are to Harry Smith, Exeter, Ont., are to be
auctioned to the highest bidders, at Spring Grove Farm, on Wednesday, June 25th. This is undoubtedly : one of the
grandest opportunities ever offered securing opportunities ever offered for
serd-headers, herd-builders, and show-yard propositions. All the cattle
are in thrifty, breeding condition, and are ready to go on and make money for their purchasers. They are breeders and
individuals which caninot but add strength to the herds to which they go. At the head of the Spring Grove herd, and in-
cluded in the offering, is the wondercluded in the offering, is the wonder-
fully deep, thick, low-set, smooth-fleshed dark roan, Cruickshank
derk
Victorictoria bull, Victorlan $=87808=$ He shows . Shorthorn type all over, and has that char-
acter about him which stamps him prepotent sire. He has for sire Lancaster
Royal 2 nd Royal 2nd, and is, through him, grandson of the great breeding bull, Blood
Royal, selected by Mr. Duthie as a header Royal, selected by Mr. Duthie as a header
for the Cargill herd, being the pick of
the Collynie calves in of the imported cow Victoria
wist, and will be seventeen months old at time of
the sale. VVictor Rosewood is a smooth, name implies, he is a Rosewood, and has
no or dam Athelstane Rosewood 3rd, also
included in the sale. included in the sale. He is a comer,
and parties looking for a young bull of
the kind to head and parties looking for a young bull of
the kind to head the best herds, can
make no mistake in making a bid for make no mistake in making a bid for
this good youngster. He is sired by
Primose Chios. Primrose Chief, a big, fleshy bull, by
Derby (imp.). A few only of the cows can be mentioned in the space available. Lady Butterfly $=72137=$ is a big, thick, even-fleshed, breedy, red cow, just in her
prime, and will have dropped prime, and will have dropped a call be-
fore the sale, by Victorlan. The great Butterfly tribe, of which she is a meem-
ber, requires little comment. Bridal Bouquet, the $\$ 3,600$ Toronto winner, be
longed to this tribe and longed to this tribe, and the $\$ 10,000$
bul, His Majesty, was a Butterfly, Bull
calves of this breeding have made as calves of this breeding have made as
high as $\$ 1,700$ each. They have topped
the Uppermill and Gordon sales the Uppermill and Gordon sales, and a
heiter out of this cow, Spring Col Buterfy, sold at Guelph in 1910 Grove
$\$ 1,025$, and another was considered one of the best in the Bredt sale last De
cenmer, bringing $\$ 500$, one of the beat censeber, bringing \$500, one of the best
prices of the offering. Lady Butterfly
is out of and prices of the offering. Lady Butterfly
is out of an imported cow, and is sired
by Spicy Broadhooks, tracing direct to Spicy Robin, by William of Orange or
Princess Butterlly $=88360=$, bred Princess Butterfly $=88360=$, bred to
Victorlan, is a roan, with a wealth of
flesh and ir fesh and great depth of body. She is
the kind to put in the breeding herd the kind to put in the breeding herd,
and is also a good milker. She is the and is also a good milker. She is the
dam of Prince Butterlly, which won sec-
ond at Toronto and London in 1911 ing only beaten by Carpenter \& Ross'
International winner. She is sired by International winner. She is sired by
Pride of Morning, a son of the noted Joy of Morning, and her of the noted
the best... Butterfly the best. Butterfly her breeeding is of $=82242 \pm$ is
a handsome roan, heavy-milking cow, by great sire, Gold Drop, a Toronto
first-prize winner in the keenest com-
petition, and a bull which sired winners at Toronto a few years ago than
any other. This cow has a fine bull
cal at foot. Mayflower Gift (imp.)
a1798=, a Bruce Mayflower, and
 a mining village in the north of England
had been called in by a miner's wife of notoriously dirty habits. After inspect-
ing the child the doctor coughed and ing the child the doctor coughed and
lonked hard at the woman, whereupon
the following Mother-"'Well, doctor, you havent Doctor (emphatically)- "Wash his face

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resents. It is all unnecessary. Reinforced rend practically forever. Within 30 years all construction will be of rein-
forced concrete, from the finest mansions to the tallest sky-scrapers."-[THos. A. Edison, in the Cosmopolitam.
We have a valuable book o 128 pages, entitled, "Portland Cement on the Farm," the regular price of which is $\$ 1.00$, which you can obtain free in connection with our special offer, as follows: Send us $\$ 1.00$ for the Roders Book, and we will mail you with the book an order for $\$ 1.00$ worth of Rogers Cement on the nearest Rogers dealer. If there is no Rogers dealer in your-vicinity, send us 50c., and we will send you the book by return mail. The information contained in it is worth hundreds of dollars to you. With the aid of this book you will be able to make all your own cement improvements yourself.



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## CLARE BROS. \& CO., LIMITED, Dept. L, Preston, Ont.

Gossip.
springhurst shorthorys Springhurst, the home of Harry smith winning herd of Shorthori catte, and situated at Hay P. o., ont., less than a mile from Exater station, on the $G$. T. cattle which hauve a large number of the in 1 winch have made the breed famous Shortherica. The herd is known to Statese ns nen in Canadada and the Unitod tences as a breeding herd par excel. posed of some sisty time it is com in good breding condead, and all are tered well, and are tontion, having winpasture fust ribht tow to be seen al work which the hed continue the great Complished $A$ conis in the past has ac berd will be sold at the the dienorman this ot T. E. \& H. C. Robensporsion sale on June " 25 th next noson, at Maderton. will be made ot these laterectial mention with notes on that offering in connection note is possible with oring. Individual to limited space. Queen of Dien, owing a dark red, deep, thick, evenon - feeshed hoiler, in call to the erevint oull, Blarraesstone, now in service young heifer is rising three years old a Shorthorn from nose to toos. she has tor sire the noted Gold Droo. and is out of Bonnie Jean. Gold drop won dat place at Toronto in a class of aifghteen as a two-year-old, and four of
his coll ves in his calles tied for frrst place in iftoen
entriee years ago ho simed morribiton, and a few tional winners than ane Canadian NaSeveral of the heiters any other bunt of the great
Vanity
 3r.i. Smith considerats the best breeding
buil ho ever owned, is on attractive. She is a very typer heife Just turnee two years of ase, ot the low
sot, deep-teseshed $k$ kind, and is in in Blarneystone. Vanity 16 th in in call Slocky twoyear-old, also by Ben $W_{\text {vyia }}$
She is one
 and breed type galord shows character
 thick, very semord pord proposition, e, deaen

 stock should not overlook her. . Vanity
17th,
roan Ben
Wyvis
two.yearo-lid her lines, and in callt to Blareneystrote in one ot the right kind to buy. Lunanater
Lily is a white show heier, which woin
and


 the which has won so much money in
the Melick herd in the West, ond wis Junior champion at Morst, and was
Viilage Rose


 and ${ }^{\text {and }}$ rann heiter already mentioned,
and she herselt won at Toronto calt in strong competition Sorono as is



 and is ishe ols. the is by byest Grod Prop.

 | piecer |
| :--- |
| buil in in surnerices tone, the the young. roan | of Butterlyy 32nd (imp (int ineer, and out





 ing value ot thanr sties ond prove the dread. ing valum ot thiris sires and dema


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A Currant Disease. A review of Bulletin 357, of the New
York Agricultural ETperiment Station, York Agricultural Experiment Station,
Geneva, N. Y., contains information reGeneva, N. Y., contains information re-
ganding the Control of Currant Cane
Neecrosis by Summer Pruning Necrosis by Summer Pruning.
More than twenty years ago, a disease More than twenty years ago, a disease
was discovered which has become a very was discovered which has become a very
destructive trouble in the currant plan-
tations of the Hudson Valley. The clause of this disease remained long unkenowe
but careful study by botanists on the but carefutu study by botanists of the
Geneva, it. .und the Cornell stations,
proved it to be due to a fungus which has tree distinct to a fure forms. which or
ot inese the basal form is Boiryosphoria
the ribis, so that this stands as as thesphocria scien-
tificic name of the tungus whe lice name of the fungus which cuuses
curant blight, currant-cane blight
currant currant-cane necrosis. Usually, the dis
covery of the cause of covery of the cause of a disease soon
leads to a
a remedy, but tin this case no ereventive or remedial treatment can yet.
pe recommended. On certain canes, or portions of the
canes, the leaves witt, turn brown, and canes, the leaves wilt, turn brown, and
die.
dion aftected cane will show a seo
tion tion of dead wood from one to four
inches long where the bark has been killed and wood and pith, invaded by the
mycelium of the fungus.
This mycelium of the fungus. Sherens of sap, and thereby causes all the upper part of the plant to wither and die. The general appearance is very
similar to that caused by borers similar to that caused by borers in the
canes, but when this insect is tespone che, a distinct burrow will be found, and the larva, itsell, may be present. In fungu-blighted canes, neither burrow nor
larva con to larva can be Yound, but on careful ex
amination, especially with a mieroscope amination, especialing wh a microscope,
fine, whitish, cobweby threads may be
dio discovered in the discolored pith at the point of attack.
The localization of the injury made it seem possible that summer pruning to
remove the diseased wood, with destruc tion of the affected portions, might check the progress of the disease. Accordin ly, two experiments with this apparently
promising method of control were begun in the spring of 1907. Within a_year
or two it or two it was found that the method offered no chance of success in an old
plantation.
However, the second test, plantation. Howere, one one year set,
begun in a plantation ont
has now been continued lor six years, all began now boen continued for six years, all
hane
canes showing signs of the disease being canes showing signs of the dirsease being
prunued out rrom two to four times each
seaso season. This work was done but at no time during the progress of
the experiment has the disease been no the experiment has the disease been no-
ticeably checked.
The infections seemed as numerous and as injurious on the
treated as on the untreated plats, and the yield of fruit was even smaller on
the the treated plats. Accordingly, summer
pruning can no longer be recommended for the control of necrosis. In fact, no method of treatment can be conifently
reammended at present recommended at present, although eox-
periments in spraying are being conperiment
tinued.

## Trade Topic.

"The 'Salada' Tea Co. have issued a
writ for 55,000 against Messra. Ward \&e Co., of Montreal, for using the word
had her instructions. Mrs. Subbubs (to neighbor's child)-
..oh this is the dozen of fresh egga asked your mother to, send over. How much are they, Mary?"
Child "-Please'm, it's forty cents, bui $\underbrace{\text { mothar says, if you grumble, it's thirty- }}$

HORSE OWNERS! USE

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letter FREE of diplomed veterinary chacge, with, our diseases, write and consult him now DR. BELE'S Veterinary Meltion Won FREE to horsemen, who, will give The yopde
 Stirets and Sheriberes

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F ALL the losses owners are liable to, none can be less prevented or modified in any manner whatsoever than lose by fooling. Notwithstanding the best care and attention, althougha mare may have fonied many times successfully, she is alwäys a cause of worry and anxiety to the owner through the fear or hosling fye ceace care and expenses incurred forno avail. of the seast, not to mention service ayment of a few dollars in premiums would cover you should it happen. Reduce the amount of the risis by insuring orily risking thereby the loss of the Premium if the mare foals alrigh We issue 30 days, 6 mon ths and 12 .



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## Queetione and Answers.

## Miccellancous.

Property in Trees. In building line fence some trees are directly on the line, and must be cut to run fence straight. To whom do said ing such a case? Ontario.
entitled to or the adjoining owners is the line, of sortions on his side be divided accordingly.

Ducks Die
I have some young ducks which seem to get dizzy, and throw their heads back on their back and fall over. tn a short
time they die. Could you tell me the time they die. Could you tell me the
cause of it, and give me a remedy?

Ans.-Their actions before death would indicate that they get a little too much
sun, but this should not be the sun, but this should not be the case so
early in the season. However, ducke require shade, and do much better in a cool place than one too warm. Would
advise that the gizzards of a few of the advise that the gizzards of a fidw of the
dead birds be opened to see whether or dead birds be opened to see whether o
not they are jammed with some substance. What are they getting for feed? A mixture of corn- meal, bran, oatmeal
or shorts, or low-grade flaur or shorts, or low-grade flour and anima
meal is good. Corn meal is used as the basis, and enough shorts or flour is used to make the mash sticky. Bran is used
as a filler. From 25 to as a filler. From 25 to 40 per cent
green food should be fed. Milk may be used in place of animal meal. Removing Tree--Frightened Horse1. Between $A$ and $B$ there ing maple tree on the edge of the river
with the roots sary to have the tree cut in order to erect a fence that can be lifted in the
fall. Can A compel B to remove the tree, or would it be legal for A to re-
move the tree, after giving B move the tree.after giving B ample tim
to do so ? , $1=$
2. A was driving along the public
highway about a month ago when his driver was frightened off the road by B'
ram, which was pasturing ram, which was pasturing on the road
side, together with other sheep side, together with other sheep. A.s
driver is afraid of all sheep now. Has A any lawful claim for damages, and how should he proceed? 3. Is it necessary to take B's cattle
to pound, they having come through B' to pound, they having come through $\mathbf{B}^{\prime}$
fence and $\mathbf{B}$ holding the pound? 4. If it is not necessary, and A holds
B's stock, how should he collect damB's stock, how should he collect dam-
ages if B refuses to pay ? I have been ages if B refuses to pay? I have been
bothered considerably with neighbors stock, but as yet have not taken legal steps to prevent.
Ontario.
CONSTANT READER. Ans.-1. A cannot legally compel $\mathbf{B}$ to self. We dof not see that he could main tain such/claim.
3. Yes 3. Yee
4. He 4. He could not, in such case, legally information, we would refer yor further
you to the recently-revised Pounds
Statutes, 1912

The Forster Farm, at Oaliville, Ont. eport a grand crop of have now, perhaps, the largest pure-bred fock in Ontario, and are excellent breeding. Just now they have some breeding
ewes for sale at bargain prices if taken ewe for sale at bargain prices if taken
at once. This farm also offers some sturdy bull calves of the Aberdeen-Angus breed. Two are ready to be turned oft
right away, and it is well known mhe right away, and it is well known what
superior veal calves and early-maturing steers these bulls produce when crossed with grade herds. Write the Forster Farm, O
ticulars.

## Newsboy-"Great mystery ! Fifty vic

 tims ! Paper, mister ?"Passer-by-"Here, boy, I'll take one. (After reading a moment.) "Say, boy
there's nothing of the kind in this paper there's nothing of the kind in this paper.
Where is it ?" Newsboy-"That's the myster
You're the fifty-first victiu."


## THERE ARE OTHER

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ONTARO

4Willow Bank Stock Farm Shorthora Herd Eatabluhbed 1 1355


JAMES DOUGLAS, Caledoeia, Ont.

## DRED 1866

Questions and Answers． Miecollaneous．

Making the Babcock Test． wiil sou pleabe give instructions， trovegh the columns of＂The Farmer＇s
how to use the Babcock adrocate，＂
tester？ Ans．－This was fully answered in a 1011 feste of this paper，but we can do
boter than repeat the information 10 betior biven by Prof．H．H．Bean，of the
0．A．C． o．A．C． 1．Thoroughly，mix the sample of milk，
of cream，by pouring，or stirring，in or cream，by pouring，or stirring，in
 er）of milk with a pipette，and transfer
to the Babcock bottle．（In the case of to the Babcock bottle．（In the case of
cream，meesure 18 c．．．，or better，weigh 18 grams into the bottle．）
oid（oll of vitriol）to the milk （6．the bottle，by pouring the acid along tho insilite of the neck and bowl of the
bottle，being careful not bottle，boing careful not to pour it ther or burn the fat．as this tends to 4．Mix the milk and acid with e rotary motion．The mixing should con－
lnue until all the curd dissolves and To mixture becomes a uniform brown
color．As a result of the chemical ac color．As a result of the chemical ac
tion，much heat is produced．This is neceseary in order to keep the fat in a
ilquid condition．The sample should niquid condition．The sample should 5．Next，place the sample，or samples， in the pockett
monly called a＂teater．＂Centrifuge，Be sure that the machine is＂balanced＂－that is，has an even number of samples．in the pock－
atts，and that they are placed opposite ots，and that they are placed opposite
ench other．An odd number may be ＂balanced＂with a sample bottle con－ taining water．
6．Start the
6．Start the machine slowly，and re－
rolve at full speed，as indicated by the manutacturer，for four to five minutes． 7．Stop the machine，and add hot water，at a temperature of 140 to 160 dogrees F．，to each bottle，filling to be－
Theen the \＆－and 10 －per－cent．marls． This may be done with a pipette，or
with a special fller．The operator must be careful not to fill the bottles so as
to run the fat over the top or much to run the 10 －per－cent．mark，in which case the sample is spoiled，or made im－ possible
calipers． two minirl the samples again for one to machine．
9．Remove the samples：from the pock ets and transfer to a hot－water bath，or
dish containing water at 140 degrees F ． having sufficient depth to reach the top of the fat column in the bottle，or
bottles． bottles．
10．Read from the highest to the low－
ost limits of the at column in est limits of the fat column in milk on the graduated neck of the milk bottle represents one per cent．，and each of the
smaller spaces two －tenths of one smalier spaces two－tenths of one pe
cent．It is possible to read samples to one－tenth of one per cent，
11．After reading，empty the bottles Thito an earthen crock or other vessel Wash once with hot water，then add a empty，and wash again with elean hinse， water，when the bottles are ready to use 12．Special bottles are used for test－ trquire special directions for reading，but the ordinary farmer does not need to use
any of these，except the cream bottle， any of these，except the cream bottle，
for testing cream．These bottles are usually graduated to one－half of one per
cent． cent．，though a person can read a little
finer than this，if necessary． finer than this，if necessary．
ings，too low or too high readings，and fat solid or congealed in the neck of the readings are caused by having milk or acid，or both，at too high a tempera－ grees F．）；acid too strong，too much acid
used，or acid por Cloudy or curdy readings are caused by the opposite of causes for burnt readings too weak，acid，or both，too cold；acid
completely mixed．milk not properly or complately mixed．Too low readings may
be caused by not measuring the proper he caused by not measuring the proper
quantity of milk，spilling some of the


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others．Several young bulls are riced reasonably
ELORA，G．T．R．and C．P．R．

 headers of this champion－producing breding．
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distance
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5 YOUNG BULLS 5 年
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II．Cargill \＆Son，Gargill，Oint Oakiand－50 Shorthorns
䇫
 Spring Valley Shorthorns Atu
 shorthonis，Colsumolls，Barisilitres
 Min mix in pixim ofer at preent in Bertabiree． CHAS．E．BOMNYCASTLE f．O．－Campbollitord，Oncrat Fincir －ster Wodholme Shorthorne
 Hiximide duzix Elovor Dell shorthoris Cloleo youes rocel of boir the
聐 inflormation． Eiginco．DUTTÓN，ONT： Spruce Lodge Shorthorns \＆Lelceotert
Preent offering：Young bulle and helfen from

 EIEMTION＂FARMER＇S ADVOCATE．＂

## HEALTH OF THE DAIRY COW

- =ation in general are looking carefully after the much care can not be given to th health and sanitary provisions made for
the dairy cow. Some of the detry concorns in prominent American citiee are urging the different farmer from whom they are securing their milk
supply to disinfect their birns deily supply to disinfect their barns daily with able sanitary condition. $\begin{aligned} & \text { Even if pos } \\ & \text { Eisen }\end{aligned}$ condition cowe are kept in were no known, the duty still remain wer mainvery beat. Aside from the moral duty
cond to furnish pure milk, there is a mone ary advantage in it that is very direct.
Stables must be mept Stables must be kept scrupulously
clean, odors and ofiensive smells musi be kept down. The regular and free use a good disinfectant like Zenoleum $\cdot$ is mpeotant, and yet it destroyous diserms, "prevents their breedings, disease he atmosphere about the dairy herd pure. The odor does not permeate the milk. It is the best course to pursue to
scape cow tuberculosis, which, when it has taken hold, is instantly fatal to the nilkman's profts. A recent report from
the Utah Agricultural College indicates the Utah Agricultural College indicates in keeping down and ridding their herd of tuberculosis by a thorough system of disinfection and improved sanitary cony adapted to just such uses. It ought to be wherever live stock is kept. Nowhere is it more useful than about the iny cow-owner could afford to keep it on band at anll times.
The Zenoleum
The Zenoleum Veterinary Adviser, a sixty-four page booklet, is a valuable
one, and every dairy man should copy. It can be had perfectly free, fust for the asking. Most dealers sell Zenbleum, so you see it is easy to get. wich St., Windsor, Unt


Herd Bull $\begin{aligned} & \text { for Sale-Connt of Lakeview } \\ & (9076) \text {; calved March } 28,1910\end{aligned}$ Bred by Lakeview Stock Farm, Bronte, Ont.
oplendid stock-getter. Over 80 per cent. of his get





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 ter in 7 days.
herd
buli. $\begin{gathered}\text { All sired by our own } \\ \text { Prices reasonable. }\end{gathered}$
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$181 / 2 \mathrm{bss}$ at 3 yrs. to $221-3 \mathrm{lbs}$ as matured fows and on sire's side from 24 6-10 to 29 liss. of butter
in 7 days
Wurgeesville, Ont. phone or come to $\mathbf{F}$. E. Pettit, Glenwood Stock Farm 5 bull calves HOLSTEINS $\begin{gathered}\text { Git } \\ \text { fit } \\ \text { out or berrice, mill: }\end{gathered}$
 Maple Hill Holateln- Frieslans -Spectal
 G. W. Clemons, R.R. No. 2, St. George, Ont.
force, wi using sufficient centrifugal machiné, and inaccurate reading.
high reading to measuring of the milk, having the water
too Loo hot, reading from a steam-turbin
tester with enster . Wat congealed in the nectio read
ing. bottle is caused by fat being too cold ple; set in hot waster, at 140 deegrees F .
to melt the set Fuller directionefore reading. books on the subject, and also in vart ous bullotins.

## Questions and Answers.

 Miccollaneoous.Feeding Horse
Will you tell me, through your col umns, what would be good for a stal-
lion four years old, to keep his appetite up, and help him digest his food through the season? Ans.-Give the horse regular exercise, and leed on hay and oats of first quail keep him well groomed, and avoid druge unless the horse is ill.

Tuberculosis in Fowls.
Qnd have a disease killing my chicken decrease in flesh, and finally die stupid mined a few, and found the liver twice white lumps. I keep the pen disinfected and have given them roup cure give me a prill they seem to die. Could you give me a prescription that would be
of any use ?
MRS. C. R. Ans,-The trouble, no doubt, is tuberculosis. When such symptoms occur, you
should send a dead bird should send a dead bird, with deseriptio
of symptoms, to Dr. C. logical Laboratory, Ottawa, or to Pr S. F. Edwards, Bacteriologist Guelph, Ont. In your case, the trouble appears 10 be extensive, and we woul
advise cleaning out the stock, markating the carcasses of those birds which ap pear to be healthy. Clean up, thor oughiy disinfect, plow up and cultivat winter, at least, when care should be ox
ercised to see that they are in disinercised to see that they are in disin-
fected houses; clean. dry, and well ventilated.

Preserving Post

1. What is an effectual treatment
fence posts to make them last fence posts to make them last longer?
2. Have you evidence of there bein much difference in the lasting qualities of posis treated and untreated?
3. Would charring the posts
much benefit
Ans. -1 and 2. Creosote is a
day. Have theat the posts on a warm the ground. Heat the creoselear of kettle to a temperature of about 220
degrees F.

coat is dry, apply anoth
sote should penetrate
 A pint of creosote should of an inch.
sized post. H. R. MacMillon a fair-
H. Dominion Forest Hervice, says increased life of the post far more the
pays for pays for the trouble and expense of
creosoting. of course, posts should
seasoned before seasoned before treating.
4. It is very doubtul whether the
practice would have the effect desired. the safe course. A newcomer in Porcupine mining dis-
rict tells an anectote that admirably illustrates the extreme caution of the The new argavaling any controversy. an interesting roung stranger, and, as it was near
night, proposed that they pitch camp
logether. After they ogether. After they had unpacked their
things and had a bite to eat, they were enjoying a quiet smoke prior to retiring.
The newcomer ventured "Fine night."
"Ioooks like rain," ohserved the other
"Oh "Oh, no; I don't think so." danions great astonishment, got up and "What's the matter ?" "Rut why ?"

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 anecdote, "George
dollar across the Delaware." His father exAlained a
dollar went farther then than in these days. That was in 1776
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good cows and heifers bred to the "Champion." Write me your wants and few
maple avenue stock farm, in and please you.

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Questions and Answers
Miecellanaous.
Public School board, when advertisisng for a t toacheor to state salary The Can a trustee, when instructed by
the othere two trustees, do nocesary ry ra pairing to school property, and collect pay for doing trustee. Ans -1 . $\qquad$ generally advisable. With so many generally advisable. With so many
positions available, candidates do not positions available, candidates do not
usually care to go to the trouble of correspondence when they have no idea what they are to receive. have no idea
2. The trustee who does that, takes chances of being placed in a very awk-
ward position in case any ratepayer ward position
should object.

Potato Planting.
What time do you plant late potatoes
at Weldwood? How wide apart in the
 rows ?
Ans. Potatoes have not yet been
grown at Weldwood, save a very few
lor grown at Weldwood, save a very few
Oor home use. Last year they were
planted in the planted in the old-fashioned way with
the hoe, in the rows of young apple the hoe, in the rows of young apple
trees. We plant about the Twenty-
fourth Courth of May, or as near that as may plowed-sod, it is not a bad plan to drop the sets along the heel of the opened
furrow every third furrow, if mediumground running furrows droping in these and covering with the plow is a good plan
available,

Tuberculous Poultry.

1. Have hens. Which I believe have
tuberculosis. I destroy them as soon
tuberculosis. I destroy them as soon
as I se them get lame. Is that a
right thing to do?
2. Are the eggs fit for use from such
a flock of hens?
T. E. M.
a flock of hens ? T. E. M.
Ans.-1. Your procedure is all right as Ans.-1. Your procedure is all right as
far as it goes, but seeing that many
birds will have the germs of tuberculo birds will have the germs of tuberculo-
sis before showing visible symptoms, and sis before showing visible symptoms, and
that during this time they will be contaminating the premises with germs
yoided in excrement, you will readily see that your method will be tardy, and un certain in its results. First of all, make sure of your diagnosis by express-
ing a dead bird to Prof. S. F. Edwards Bacteriologist, ,O. A. C., Guelph, Ont. or to Dr. C. H. Higgins, Biological Laboratory, Ottawa, at the same time mailing him a letter giving full particu-
lars. If it is tuberculosis, you will re ceive full directions in a bulletin, or otherwise.
3. Recent investigations indicate that the eggs laid by tubercular hens may
contain the germs, put, notwithstanding we should not hesitate to use the" egge from apparently healthy hens.

Artichokes.
Can you, or any of your subscribers, give me any information as to the value
of Jerusalem artichokes for' hog feed? of Jerusalem artichokes for hog feed
Also, directions for planting, kind land in which they do best, and method of feeding.
Ans.-Jerusalem artichokes are recom-
mended by many as an excellent feed for hogs, being more especially suited for
light, sandy soils. The tubers may be planted in late fall or early spring, in
rows two or three feet apart, space rows two or three feet apart, spaced a
foot or eighteen inches apart in the rows. In planting, the tubers may be
cut like potatoes, one eye in a set Plant like potatoes, and cover about two inches deep. ready to feed early in Sep-
should be real tember, the hogs heing turned in to help
themselves. Cultivate much as you would for potatoes or corn. Frost does no
injure artichokes, and usually enough tubers are left in the ground to insure
a crop the following season. To eradiput the plot into a hoed crop. Would
advise planting only on a small scale
The The feeding value is a little higher than
that of potatoes, and hogs are very fond
or them in moderate quantity.


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silo. It insures for the dairyman a larger milk now in the winter
or during dry weather and fates the plice of grass for tuecrs or sheep during drought
 must convice you that hee ver wile in the best condition:
yout the best service and kee pout All our silo staves are thoroughty air dried and then saturuted witha solution which prevents rot and decay and adas many yearr to You will tind our new silo book contains much intormation abo the erection of silos and the many advantages of silige, and we will be very glad to send this book to nny cow ovner upon reques.
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HAMPSHIRE SW1NE a. A. Fowikut Pricoer reeanonamble poorted stock. a. A. FOWRL, Four miles north of Londo. ONTARIO STVINE OT MTL BRERDS PON BNLE Whrowe Cheter Whiteon, Portand, Chinkahiren,
 Poland-Chinas Poland-Chinos Shon
 Geo. G. Gould, Edgar's Millo, Ontaric EARLY HUMOR. Gladstone, when a boy, was visiting in him around. Coming to was showing contarinied a large, black bull, fhe farmer said : "There's, a fine, strong bull there, Master william, and it's only two years "Od"How do you tell its age?" queried ? the boy.
"Why, by its horns," said the farmer. By
looked horns,"
thoughtful a moung Gladstone looked thoughtful a moment, then his
acce cleared. "Ah, I see. Two hornstwo years.

A Scotchman, wishing to know his mate at once, telegraphed a proposal of opending the entire day at the telegraph年ce, he was finally rewarded, late in the evening, by an affirmative answer
"II II were you," suggested the oper tor, when he delivered the message $T$ dhink twice before I'd marry a gir that kept me waiting all day for my nswer." "Na, na," retorted the Scot
"The lass who waits for the night rates The lass who waits
lis the lass for me."


Preservind Fence Poste from Decay
Wood-rot, in all its forms, is due to
tho action ot tugit the action of fungi working under suita-
bie air and moisture yle air and moisture conditions.
tencetence - Posto, theso conditions are moot
tavorable at or near tho tavorable at or near the surface of the
ground, and hence it is there first starts. Some wood hat decay first starts. Some woods, like the to fungus attack, and may more resistent to fungus attack, and may last, as fence
posts, from eight to ten years. tunately, however, the supply of these
woods has grown very scarce, and the farmer is faced with the alternative of importing durable material at a high
price, or of applying preservatives to
the the common, non-durable woods which grow in his own wood-lot. As the lat ter alternative is not only cheaper, but
also much more effective, it is of also much more enctive, it is of con-
siderable economic interest to the farmer
to to know how these wood-preservative are applied.
Creosote. a
Creosote, a "dead" oil of coal tar, is
perhaps the best preservative ther purpose, as it does not dissolve out o the treated wood, when in contact with moist earth. It costs from eight
afteen cents per gallon. There ere two metho creosote, but before either method can be applied, it is necessary to have the post
well seasoned if the best weil seasoned if the best results are de plished by peeling the bark from the posts and then stacking them in loose
piles in the open air for several months so the amount of water in the wood may
be reduced to the amellest possible.
.The Brush Method consists in applying the creosote like a coat of paint to th six inches above the ground line, the creosote being first heated to one hundred and eighty degrees Fahrenheit. Tw ing allowed between each application for the creosote to soak into the wood. What is known as the Open - tank Method, while more expensive, secure sults, especially when the posts are split or checked. The creosote is heated boiling point in a metal tank, and, if fective apparatus can be made ey two holes, about two feet apart, in the lower half of one of the staves of water-tight barrel and screwing into these four feet long, which affe connected by shorter vertical pipe with two elbowjoints, thus forming a complete circuit
somewhat resembling the handle of a mug. b barrel is then filled with enough
The creosote to cover both upper and lower the lower horizontal pipe, which under the creosote in the pipes, and createa circulation which continues until all the point. Within the barrel is at boiling this boiling liquid for about five hours after which they are immediately trans erred to another barrel of creosote, o else the fire is put out and they ar creossote becomes thoroughly cooled. In this process the preliminary heating drives some of the contained air out of
each wood-pore, and when the posts are each wood-pore. and when the posts ar
allowed to cool in the creosote tial vacuum is then created in each pore
which draws the creosote into every which draws the creosote into every
fibre. Poplar posts, which ordinarily last but three to Your years, after ${ }^{\circ}$ the
above treatment, will last twenty years, and the same applies to all other tre species in Canada. All that is essentia is thorough seasoning before treatment Further information can be obtained on
application to the Forestry Branch, Qttawa.

The witness on the stand was being subjected to cross-examination. In answering one question he nodded. Where
upon the court stenographer. who could not see the witness, demanded. "Answer that question."
The witness replie
it : I nodded my head
"Well, I heard the rattle but could
not tell whether it was up or down or
from side to side?, Irom side to side,

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 Cod othere ready to breed; also
C. J. L. LANG. Prces reatomable.
 will be receive at Ottawa until noon, on Friday, the His Majesty's Mails on a proposed CCntract for four years, six times per week, over Rural Mail Route No. 2, from Park pleasure Printed notices containing further in-
formation as to conditions of proposed Contract may be seen, and blank forms of Tender may be obtained, at the Post
Omices of Park Hill, Sylvan, Lamon, Omces of Park Hill, Sylvan, Lamon, and
Sable, and at the Office of the Postofice Inspector at London. ANDERSON,
Post Office Department,
Mail Service Branch,
 SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, the 20th June, 1913, for the conveyance of fract for four years, six times per weelk, over Rural Mail Route "B," from
Crediton (South), Ontario, to commence Crediton (South), Ontario, to commence
at the pleasure of the Postmaster-Gen$\underset{\substack{\text { eral. } \\ \text { Prin }}}{ }$ Printed notices containing further in-
formation as to conditions of proposed Contract may be seen, and blank forms
of Tender may be obtained, at the Post of Tender may be obtained, at the Post
Office of Crediton, and at the Office of the Post-office Inspector at London. ANDERSON,
Post Office Department
Mail Service Branch

## Mail Service Branch, Ottawa, 7th May, 1913.



MAIL CONTRACT SEALED TENDERS ADDRESSED TO Ot Ottawaster-General, will be received Iis Majesty's Mails on a proposed Conover Rural Mail Route from Gad's Hill Station (West) (Rostock Way), Ont.,
Trom the Postmaster-General's pleasure. Printed notices containing further information as to conditions of proposed
Contract may be seen, and blank forms ontract may be seen, and blank forms
Tender may be obtained, at the Pest "f Tender may be obtained, at the Post
"fices of Rostock and Khuryville, Gad's Inl. Cad s Hill Station, and at the

ANDERSON,
aperintendent
$\qquad$


MAIL CONTRAGT SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, the
20th June, 1913, for the conveven His Majesty's Mails on a proposed Conweek, over Rural Mail twelve times per Crediton and Centralia Rwy. Stn, from the Postmaster-General's pleasure. Printed notices containing further in-
formation as to conditions of Contract may be seen, and blank form of Tender may be obtained, at the Post Offces of Crediton, Crediton East, Cenoffice Inspector at London. G. C. ANDERSON, Superintendent
Post Off
Mail


## 4n ent

MAIL CONTRACT SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, the 20th June, 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 from Stratford
or Shakespeare master-General's pleasure. Printed notices containing further information as to conditions of proposed Contract may be seen, and blank forms
of Tender may be obtained, of Tender may be obtained, at the Post
omices of Stratford, Shakespeare, and at Ofices of Stratiord, Shakespeare, and at
the Office of the Post-office Inspector at London.

Post Office Department,
Mail Service
ANDERSON,
Superintendent
Post Office Department,
Mail Service Branch,
Ottewa

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## MAIL GONTRACT

SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, the 20th June, 1913 , for the conveyance of
His Majesty's Mails on a proposed ConHis Majesty's Mails on a proposed Con-
tract for four years, six, times per week, over Rural Mail Route "F," from Exeter over Ru (Huron, s. R.), Ont.,
(Wostmaster-General's pleasure
Postmas Postmaster-General's pleasure.
Printed notices containing further inPrinted notices containing further
formation as to conditions of proposed
Contrent Contract may be eeon, and blank forms
of Tender may be obtained, at the Post of Tender may be obtained, at the Post Offices of Exeter, Hay, and at the Offlce
of the Post-office Inspector at London.
S. Superintendent

Most Oflce Departanch,
Mail Service Branch,
Ottawa, May 6th, 1913 .



MAIL CONTRACT

 4th July, 1913, tor the convegance of
His Maiestry Now tract tor tour wants on a proposed conover Rural Mail Route from Mitchell
specia special (North) (Sauth Perth), Ont.,
the Poser Printed notices containing further in Pormation as to conditions of proposed
contract may be seen, and blank forms of Tender may be obtained, at the Post
office of Mitcell the Post-office Inspector at London. Superintendent
Post Office Department
Mail Service Branch,
Ottawa, May 17th, 1913


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Vame
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[^0]:    Blanc mange is the French for white

[^1]:    Wearing of the Green. Hed yo ever a glimpse of a slim littio Thint anikped ulike, shadow the grase
    bladee between, Threadin' together 'th

    - mocklake of beads on a ribbon

