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Dad was a traveller, away most of the time-and the dull days of coming winter broust saw his wife engaged in the dirty, dusty and unending job of trying to make the lurnace heat the house, in his
absence. He saw her shivering at her meals- her health the lack of heat, and yet, he saw his coal bill growing and growing like the children uncomfortable, because of eating a big hole in his savings.

Entering the house he was greeted by his wife-ted and chilled to the bone and expected little comfortat home Entering the house, he was greeted by his wife-bright-eyed and happy, the children playing around on the
floor-he found every room warm and cosy, Astonished, he asked his wife "What's the answe
She is where all the down to the cellar, saying:-I got this PEASE FURNACE in while you were away, and that saved on his last year's coal bill. See that large next door bought his wife a new fur with the money he saved on his ast year's coal bill. See that large combustion chamber and that ingenious air blast in the fire-pot the coal - and that vertical shaker relievesme of the back-breaking stoop when shaking the furnace. Oh! wasted fis fovem and Dad's PEASE "ECONOM Y", and what was a cold and cheerless house is now a warm, cosy and happy home " and D
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separator with the trouble left out." separator with the trouble left out."
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going to be a farlure. We alt annot be
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Vol. XLVIII.
LONDON, ONTARIO, JULY 3, 1913.

## EDITORIAL

Corn is many laps ahead of where it was this time last year.

How puny is man's best effort compared to the majesty of a storm

How many thousand barrels of milk did that last big rain represent

Like a benediction from Heaven is 'a warm gentle thunderstorm after a drouth

To let good haying weather go by after the clover has reached full bloom is "tempting Providence.

Strips of alfalfa are suggested as fireguards for prairie farmsteads, by a writer in "Conservation," who explains that it will not burn.

Many a drouth-stricken farmer has breathed prayer of hope as the Militia went to camp fo its annual June drill

According to the teaching of a recent book, the real function of the agricultural scientist is not to teach the how, but the why of farming.

A rain which dampens cultivated land to a depth of six or seven inches, may moisten the soil in a dense meadow or grain field hardly more than two or three.
magazine writer has figured out An American magazine writer has figured out
that the birth of every child, no matter of what that the birth of every child, no matter of what York real estate.

After all is said and done, fit appears to be the water (well-warmed) that makes the crop. A ton of hay is said to pump 500 tons of water out of the soil before it is ready for the mower.
"Why," queries the author of "The Farmer of To-morrow", "is the farmer of Holland able to produce 50 bushels of wheat per acre, while the Dakota man rarely produces above 12 bus
unless the heavens are especially propitious.
We can afford practical education for the ndians, which is right enough, but when proposals are urged to modify public school educamasses, taxpeyers are meet the needs of the shake their masses, taxpayers are prone to shake their heads at the possibility of extra expense

In 1912, says Hon. J. S. Duff, Provincial Minister of Agriculture, in his last annual report, a total of 17,212 acres in the Province was surveyed for tile drains and 2,278 miles of drain laid, while 70 demonstrations were held under the bilities of drainage.

Peter McArthur is afraid that too many of our thinkers work in the gloom of libraries in-
stead of hin Nature's sun parlor. We agree. 'The lore of the ages is like a dry seed, which needs to be germinated and nurtured by the sunlight of direct inspiration. Books are rich in knowledge and thought, but mere book-worm philosophy is a sorry excuse for wisdom.

## Abate the Dust Nuisance.

 The difficulty of getting farmers to take united action on any matter affecting their interests is very well illustrated by the passivity with whichthe dust nuisance is borne. This evil, which has on many highways turned the phis evili, which has driving into a nauseating and clothesinjuring ordeal, has been many times acgravated by automobile and motor-cycle traffic. Automobiles as yet are owned chiefly by foreign tourists ahid by city men who have contributed nothing to wards the maintenance of most of our roads, and are even yet paying only a little indirectly through the medium of provincial grants and other channels. Their machines dart across the country, sometimes endangering life and property destroying the highways as fast as we can build them, and raising dense clouds of dust which follow the road for as much as a mile after the car, creating distressful conditions for occupants of slower-going vehicles or for pedestrians to pass through. Dwellings stuated near the roads ized road whil suit ized road, while hil, vegetable and fiel Tsland formarsivoted in plebiscoito trince Eawar policy of exclusion. There are mothols oth ponds which tend to minify the evil, but treat ment is costly
There is a saying that those who get people into trouble should help people out of it. Apwho make themselves a nuisance to others on the highway should do all in their power to abato it. In still plainer terms, we consider the case is exceedingly strong for taxation of automobile traffic on a basis that will yield some revenue worth while, sald revenue to be used for roan construction and oiling or other treatment to keep down dust. Of course the way to levy the tax is to charge a good round rate for the licenses. Firty to a hundred and aty or two hundred dollars per car per annum, depending upon the horse power, woul able, and might be divde añong manitipal ties interested, ear-marked for purposes of roar
 her Th not
 why not wour provinctil this, and
member ?

## What to Do with the Town Boy.

 What to do with the town boy in the holiday ppears to be about as serious a conundrum as How to keep the boy on the farm. The super intendent of one of the largest industrial concerns in Canada tells "The Farmer's Advocate" that at this season the company is pestered with applications from parents who want a couple of month's clerical employment for their boys, of say twelve to eighteen years old, in order to The spirit of the street and out or mischled itself occupation. As a means of education, 'the street" with its multiplying temptations, grows steadily worse. A cood manv people, like the superintendent yuoted, are beginning to consider the long holidays rather a curse than a benefit to the town boy, but apparently necessary under the present school curriculum overloaded with hook shich the duly attested ber mast"exams," is forgotten while the youth is being really trained for usefulness in the school of life Who wonders that boys and girls hanker for the last day" of the term, which is the signal fo ossing the big school bag into the garret. One industrial schol we may see evolved, a system the activities of boys and girls, reducing the need and desire for long vacations, and a system of en larged and supervised play grounds with whole some out-door accompaniment that 'will divide interest with the nerve-racking, trivolous and mercenary moving-picture show. The appeal for some genteel. clerical job for the young hopefu instead of mechanical occupation is dishearten ing, but just the fruitage that might be looke or would be of comperatively little use in a hive of industry The suggestion has been made that some plan might be worked out whereby thee boys could be given employment cutting weede on rural roads or possibly working at such jous as hoeing or spudaing thistles on the farms, but the problem of getting them "In and out" and of supervision present difficulties not easy of solution, unless resolutely handied by the parents themselves with the cultivation of a desire for country life. The busy farmer would hardly relish the idea of undertaking direction of "bunch of town boys" for a few hours daily though he might not be unwiling in case o those he knew, personally to give a civil boy willing to learn a chance to improve himself in holl day time.
.The complaint above referred to is by no means confined to one locality, but we believe to be wide-spread. It was expressed in the following enquiry the other day in the Mail and Fmpire Toronto:-
There is always a reactionary tendency amongst the young pent up in the citie not possible to assist the realization of the long ing for a successful and happy farm life amonget our town-lorn boys and girls ? The college at
Guelph is too advanced for them, whille there Guelph is too advanced for them, while there seems even for farms where, during the holldays,
andrenuous and happy life might be advantageousty and eve
stranuo
spent."
In reply, "Tlaneur," a stafl contrihutor of the Mail and Empire conceden the unusual importance of the matter as one "vital to our well being and solid progress as an agricultural people. To any well-informerd and thinking man the farm appeals as the strong and solld foundar the supply of intelligent, well-iniormed ar prising prising young man and women requing for mainis diminishing, or is being diverted to other activities, then the Canadian farm is like a "miactivities, then the Canadian farm is tike a hua full supply of rich, pure and Nifo-giving lood. We need more-far more-strong, healthy, intelligent and interested young men and women on our farms. And it would be an act of national wisdom were our Governments to provide some practical means wherelvy young boys and girls could be interested, trained and prepared for farm work."

A farm conducted on the lines of the Mount Elgin Industrial Institution, described in last week's Farmer's Advocate, would seem to fill the bill for boys and girls of the country as well as the town.

The Farmer's Advocate

## and home magazine.

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TYEIS WILLTAM WELD COMPANY (LINTED) JoHn Weld, Mavager.

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 didress-THE FARMMER'S ADVOCATE, THE WILLLAM WELD COMPANY (Limited),

LONDON, CANADA.

## Nature's Diary <br> By A. B. Klugh, M. <br> BY THE SEASIDE

To the nature-student a trip to the sea coast
is a revelation. Here he finds forms totally difirent from those occurring inland. The very
water strikes him at first as unique in its behavwater strikes him at first as unique in its behav-
ior; at one time it reaches well up on to the shore, six hours later it is a long way out and great stretches of sand or mud or rocks are exposed. Thus the state of the tide makes a won-
derful difference in the appearance of the country. Let us visit a rocky shore at low tide. We
find the rocks covered with large, brown, slippery and the rocks covered with large, brown, slippery of plants-the Algae. One of the commonest
kinds bears little bladders which act as floats, kinds bears little bladders which act as floats,
and keep it upright when it is covered with water
Lying on the rocks we see numbers of Star-
fish, animals with five rays radiating from the lish, animals with five rays radiating from the
centre. If we turn one over we see that down the middle of each ray are two rows of projections; these are the "tube-feet," by which the Starfish
moves, breathes, and foels. They can be protruded, or contracted, depending upon the mount of water which is forced into them
The colors of the common Starfish vary a good are greenish gray
The Starfish has a peculiar method of feeding as it turns its stomach inside out over its prey and digests it.
Further down towards extreme low-tide mark we come across a colcany of sea urchins, almost
spherical forms
covered
with long, movable On the rocks are the limpets, flattish, cone On the rocks are the limpets, flattish, cone-
shaped shells, which stick very closely to the On the mud between the rocks we find shells
quite different from those found inland. There are the whelks with their spiralled shell, the
periwinkles,and the large sea snail.
In pools left by the retreating tide between animals short-cylindric in form, with several rows of feathery tentacles around the top. They are
most exquisitely colored-pink, purple, yellow.
red, and mauve, different individuals being of
different colors. Here we find also the Sea Cucumbers, so named from their resemblance in their usual condition to that vegetable. - But they can assume any shape, from long and thin to perlectly spherical ; and are often seen "hour-
slass shape". that is, contracted in the middle. glass shape," that is, contracted in the middle.
In these fide-pools we also find a sea-weed which In these flde-pools we also find a sea-weed which the sea-lettuce.
Under ledges of the rocks near low-tide mark we see the Sea-orange, a form allied to the Sea Cucumber, but quite different in appearance. It is shaped like half an orange when it is con-
tracter, as it is when the tide is out. But when covered with water it has at one end a bunch of plume-like, yellow tentacles.
At low-tide mark we also find an interesting lot of sea-weeds, tufts of bright green forms, like
fine grass : red-brown tubular species forms fine grass; red-brown tubular species;"cormis aprons": fine, hair-like species, bright red in
color ; sea-weeds which are hard in texture like corals, sea-weeds which are hard in texture like the dark-red, flat-bladed Alga, known as 'Dulse. This last species is gathered, dried, and eaten. In the mud between the rocks we find the water Clams in possessing long siphons, through which the wate is takien ing siplions, expelled, and Which lie buried in the mud with the siphons projecting when they are covered with water. It is Chowders". for which many sead in the cesorts are famous.
Lheiring on the top of the mud, usually with wherms called Nereis, shiny green above and red beneath.

Hopping about among the wet sea-weed we see shrimups crustaceans which resemble miniature shrimps,
In addition to the forms of life which we have
mentioned, there are hundreds of species which mentioned, there are hundreds of species which
have scientific names only, in fact in this narrow have scientific names only, in fact in this narrow
strip of shore we have a whole world, a world very interesting to investigate, and totally new
to the visitor from inland.

## THE HORSE.

The fall exhilitions are now getting closer Does the colt lead well and behave as an edu-
cated colt shouid?

In reply to a question in the British House of
Commons, the Secretary of War stated that as Commons, the Secretary of War stated that as
few as possible docked horses were being purchased for the army; and an were being pur-
issued that has been
no horses docked should be accepted chased for the army ; and an order has been
issued that no horses docked should be accepted
after three years.

When the stallion is placed in his home stable after the bneeding season is over he needs exercise
just as much as at any other time. Too often he is neglected, poorly fed, and badly groomed. He cannot be expected to continue a first-class breeding harse if he is only cared for three or four months out of the year, and is forced to rough it
It cooto

It costs a certain amount of money to keep a
working horse every year. When horses are high in price every mare owaer. When horses are high the opportunity to raise colts, but when the price
drops fewer colts are raised. Now if brood mare are kept to do the farm work it is just as mares to hreed them when the wark it is just as wise other time. The life of the horse is short and
very soon younger and yery soon younger animals will be needed to take
their places. Surely they can be cheaply than they can be bought, be raised more profit may be made on them to reduce the cost of keeping the workers.

Here is a bit of good advice taken from the
rules of the Boston Work-Horse Parade Associa rules of the Boston Work-Horse Parade Associa-
tion. Give a bran mash Saturday night or Sunday
morn, and on Wednesday night also, if work is slack. Put very little salt in the mash work is as possible ; it will rest and refresh roll as often Do not forget to salt the horse him.
or, better yet, keep salt always before him week; knows best how much he needs.
Bring your horse in cool and breathing easily. If he comes in hot, he will sweat in the stable,
and the sudden stoppage of hard work is bad for his feet. watch your weather or in drawing heavy loads, hard or short and quick it is time to stop.
Remember that the horse is the of all animals. Remember is that he will ne cons
tented tented or miserable accordingly as you treat him.

## The Lesser of Two Evils.

While looking at a first-class pure-bred Clydesdale filly a short time ago, the owner said, What do you think of her bone? Many who look at her say. What a pity she hasn't more bone.'" This brought up the point, "Which is the greaber fault-to have bone a trifle light but of the best possible yuality, or to have bone in abundance, but coarse and badly off in quality"? neither was she very light in this particular, a somewhat sparse feather made her little deficient in size of bone. Feather is so times deceiving. Very often what appears to be extra heavy bone gives the impression simply because the size of the limb is augmented by a profusion of long, coarse, curly hair. But to get large bone of rather questionable quality-by all means choose the former. Clean, flat, flinty bone is strong, and is not so likely to become
blemished as bone of the coarse, soft order. For blemished as bone of the coarse, soft order. For
work the clean-boned animal. wins every time and, for breeding purposes has a large margin on the coarselimbed animial. The light, clean
bone may be increased in size in the bone may be increased in size in the offspring by
mating with a heavier-boned animal whose bone mating with a heavier-boned animal whose bone
is also of high quality, but mate the coarse-boned animal with what you will, a degree of coarseness is likely to crop out in the progeny. Of the two evils the lesser is the fine, clean bone, but it must always be remembered that it is possible
to get a sufficient quantity of bone, and, at the same time, bone of first quality in the same animal. This should be the aim of all horise breeding. Nevertheless, few indeed are the horses
without some defects, and it often becomes nemer sary to choose between certain peculiarities of sary to ctroose between, certain peculiarities of
type and conformation, nelither of which come up to the highest idegree of perfection. Horse matters must always be weighed carefully

## The Big Gelding.

In this department of this issue is illustrated a massive gelding. He is of the Shire breed. as well as the Shire. One of the best features of horse breeding, or, in fact, any live stock breeding, is that there are so many really good breeds that one may be found to suit the fancy of each enthusiast. If a man prefers an abundance of hair on the horse's legs and massive If he likes just a fair amount of he the shire. trim horse, he is satisfied with the Clydesdale If he wants a drafter with no hair on his limbs and a big, heavy horse, he gets the Percheron
or Belgian. All of these breeds hever and are still producing big, strong heary ings. No matter what draft breed is preferred, the breeder should always aim to produce the big gelding for the market. and the big filly to
stay in the stud or be sold to the farmer or smaller breeder for breeding purposes. Keep your ideal set on sive in the drafter, and, at the same time, do not forget quality. The small draft horse does not fill the bill on the city streets
where heavy loads must be moved six days a where heavy loads must be moved six days a
week. Aim to make the individuals of all our
breeds of draft horses

What about the Two-year-old?
We wonder how many owners of real good inior-old fllies have been halting between two dvisable cases of success, and also of, failure resulting rom the practice. This success and failure is largely responsible for the difference of opinion which now exists in the minds of horsemen, as to the merits and demerits of the practice. No If a mare is a little undersizarding this subject. called upon to do a great deal or is likely to be would be bear-old form, generally speaking, she not feel able to give the mare the horseman does sideration during her first period extra conand while she is nursing her foal, breeding had filly is be deferred. On the other hand, if the health and condition, and other and is in good ful enough on the farm to permit of her doing need have while her foal is nursing, her owner early age. no fear regarding breeding her at this dropped their first of the best breeding mares care as gere good mares when thred years of age. getting a little. Just now, when the season is time to breed any mast its heaviest, is not a bad cepted. breed any mare, the two-year-old not ex-

JULY 3, 1918
THE FARMER'S ADVOCATE

## LIVE STOCK.

This is a gaod time to get the sows which have farrowed late the past spring bred again so
as to produce their fall litters before the weather gets too cold. $\qquad$
If it is impossible to get the pigs out in reed by throwing into their pen some freshly-cut Laed
cost of or rains
and

Keep the watering troughs well supplied dur ing the hot weather. It is impossible to estimate the advantage of an abundance of fresh water to
the grazing stock, especially when the pastures be the grazing stock, esped
come dry and parched.

When beef stock has become so scarce that eading Americar dairy papers, like Hoard'
Dairyman, commence talking ;about raising dairy bred calves for beef, it begins to look like pretty good proposition for the double-decker
 Be sure to keep water in the calf stall or pad-
Very often the comparatively small allow-
ance of skim milk which the calf gets is thought to be enough drink for him. Not so. A healthy rowing calf will take and requires considerable ater during the summer sedson.

The very hot days of the midsummer season and the myriads of flies which pester the cattle should impress the advisability of keeping the
young calves in a darkened box stall during the young calves in a darkene box stall during the cooler and the flies are less troublescme.

Pine tar is an excellent preventive from attacks of the gadfly in sheep. A little dropped on their noses throughout the season does the
trick. Some sheep men arrange their salting trick. Some sheep men arrange their salting
troughs so that as the sheep inserts her nose to lick the salt she rubs it against some of this soft tar. In this manner tar is kept on the nose continuously. It will remain an however for some ime if the sheep are caught and the top of the se well covered with the tar

Old beans are more valuable than new ones, says a leaflet of the English Board of Agriculieding. Large quantities miven with oolk cow nd to prevent the cream from churning in a seful when manner. A few whole beans are very se of large quantities of bean meal when fatten ing them should be avoided or the lean meat wil the highest quality.

Rape Pasture for Hogs.
In reply to a question as to the best forage Missouri, the Columbia experiment station had welve 'correspondents name rape. After many ears experience with rape as a hog pasture
Prof. Carlyle, of the Wisconsin Station, conclud d that "With pigs from four to ten months old epresenting the various breeds of swine, an acre value, when combined with a ration of corn and of these guivalent to 2,436 pounds of the mixture hese grain feeds. igs than good clover pasture the figs fed upon rape having made on the average 100 pounds o ain on 33.5 pounds less grain than was requir d by the pigs fed on clover pasture. drills thirty inches apart to facilitate cultivation of the ground after each eop of forage is eaten is "Hogs should not be turned in until the crop revented to fourteen inches high, and should "Rape alone is not a satisfactory feed. Hogs wil just about maintain their weight on it."
The "value of rape, as compared with clover
and tested at Wisconsin is shown in this table. $\begin{array}{r}1898 \\ \hline\end{array}$

[^0]At the Kansas Station a number of 52 -pound disked into the ground. When sown in drills, sults are shown in the following table: The re- about two or three pounds of seed per acre is
sufflient, but if sown broadcast, three to five

Pasture
Rape
Alfalfa
Gain Average
per daily
Grain per
$\mathbf{1 0 0}$ ms.
pounds, and sometimes more are needed.
turned on pasturing rape, the hogs should not be turned on until the plants are twelve to fourteen hnches or, better still, sixtoen to eighteen inches pull up the young plants and kill them, thus destroying the pasture. Rape should not be
same gains as those on alfalfa pasture

An English Cart, Horse
The champion gelding at the London Shire Show, 1913.
 ith the same amount of grain required to make Commenting on these results the Missour bulletin says eriod rape makes a shows that for a short period rape makes a splendid hog pasture, there inter-killed, or land is pastured too heavily, because rape can be sown very early or very late thus making pastures at any time of the spring,
"Rape is a plant of the cabbage family, closeresembling it in manner of growth and haracter of forage. It is a rather cool-weather plant, and can be sown very early in spring, as will endure a pretty severe frost in the fall before it is injured; in fact, it may often be used or pasture after it has been partly frozen, pron


Windsor Belle.
Champion Shorthorn heifer at the Royal Counties Show in England. Owned by
"It is a gross feeder, and does best on very fertile or heavily manured soil, but does fairly well where corn and wheat thrive. It is a very will be sixteen to eighteen inches high in six to ight weeks. When sowing rape alone it is best to sow in drills two and one-half feet apart, and cultivate until eight inches high. It may so be sown broadcast, and either harrowed or
it was seen how than those with colored boeses. they did fluence, so that thed breeds soon had their in A brindle-coat the objection became established once objected to or a black-nosed beast was at speckled-faced sheep were unpopular because they showed that the influence of improving breeds had not stamped out the features of the unimproved
heath breeds, which were so slow in maturing and throughout the country
stalk remolins. A
fow leaves or parts of leaves should be left to start now
growth. II planted growth. If planted
in drills and cultivated after ie a'ch period of pasturing, three crops may be
obtained from each
set of plants yearset of plants year1. Rape can be
sown so as to to sown so as io to
furnish a forage at any $t i m \theta$ of the growing seaso $n$, can be used as the
principal pa as t ure principal ip a s t ure
for hogs. It must not, however, be
pastured too close pastured too close
ly and onds it
g i v en opportunity g i v en opportunity
to. get well started to. get well started after being pas-
tured. The amount of land 80 wn to rape need not be large, Lecause it is
worthless $\mathrm{e} x 0$ op $t$ for pasture or idiing, and one a c re
will pasture fifteen to twenty hogs for to twenty hogs to
o period of t ,
or three months."

## Black-nosed Cattle.

Quite frequently one sees a beef animal or a pure-bred of some of the beet breeds which should. have a light-colored nose, but whose nose is black. Shis in defect. Of course, this can be no objection writer in the Live stock recognized merit. A writer in the Live Stock Journal believes that: is well founded where the animal the black nose grazing; but if it to not derived from a good blecte nosed breed it is not objectionable. If it comes from a Channel Island cross, it is not difficult to trace, because as long as there is black on the This is often not objectionable, but rather the reverse, in dairy cattle, as a streate of Chinimot Island blood in a cow of bigger breed often fimproves its value for milking purposes. Not
at all a bad beast may we found with a black nose where it trecee back to a cross with a
good Welsh breed. As a matter of fact, a black nose now-a-days daes not necessarily indicate that the animal is un-
thrifty by descent. The origin of the objection to the black nose dates
back a very long time; back a very long time: any care has been taken in the improvement of
lureeds, though the cause breeds, though the cause or the objection wa a
ot removed, even from ot removed, even from omparatively fecent
ears. England had its years. England had its oreeds, like the Irish unthrifty and unprofitable to keep ; and when the Shorthorn, with it hite nose, began to in
fattening, and which were so commonly distributed about the country. These signs of unimproved blood in cattle or sheep indicated that them, or that they had reverted ; in either case, them, or that they had revert
UEveryone knows that the old wild white breeds of cattle, such as the Chillingham, had black muzzles, and though breeds had been im-
proved from them the black muzzle remained, unproved from them the black muzzle remained, un-
til the general improvement of the last ventury so gradually established lreeds vastly better, and in course of time the black nose, as indicating the older type, was bred and weeded out. Yet
there are plenty of farmers living who remember when they had to cull the black-nosed cattle and speckled-faced sheep from lots they bought, cause they knew that they were really unimproved, and that they were bound to be unprofit-
able. To-day the same thing merely indicates a able. To-day the same thing merely indicates a necessary is to be able to recognize what those breeds are, and to buy or refuse them, as they they will be put,
Bhack muzzles in such breeds as Herefords and Shorthorns bred pure must, of course be a reversion of type. at is simply a case of the old ping up again as a result of atavism. We have known Shorthorn cattle of the best strains to show this defect, and the black nose was the only indication of inferiority, the cattle being of a high-class type, and right in every other way. O and rightly so, for there is nothing to be gained hy perpetuating black inuzzles. No one knows but that if such cattle were bred their offspring might ancestry. But again they might not ever show the black point in question. At any rate it is well to avoid the black nose in breeding stock of

## Treatments for Tapeworms in Sheep

In the 1912 report of the Ontario Agricultural College, Prof. G. E. Day outlines several methods of treating sheep, or rather lambs, for tape worm. For many years trouble from this cause had been prevalent in the college lock, but during recent all lambs before symptoms in theating If treatmon is delayed until the lapear unthrifty, many of lambs factory recovery, and become stunted in their growth. Of several different remedies tried the following are the principal

Gasoline :-Mix gasoline and milk in propor tion of 1 to 7 . Dose, 3 ounces of mixture for 100 pounds weight of sheep.

Turpentine : Dose, 1 teaspaonful in milk
Areca Nut: Dose, 1 teaspoonful in milk
Oil of Male Shield Fern: Dose, 1 teaspoonful
in 2 ounces of castor oil Copper
solve one solve one pound (avoirdupois) of copper water, which will constitute stock solution. Add to the stock solution 7 and four-fifths gallons of water to dilute ready for use. To dilute in small quanticies, add a little short of a pint of water
(39-40ths of a pint) to each ffuid ounce of the stock solution. Dose of diluted solution :Lambs, 1 month old, two-thirds of a fluid ounce Increase the lose by two-thirds of a fluid ounce
for every month the month up to 4 months of age. Lambs, than one or older, require 3 fluid ounces. Lambs, 5 months Fast lambs 15 to 18 hours before giving medi-
cine, and give no water or feed for the dose is admiwistered or feed for six hours after to all remedies. It is little use to give medicine for worms without first fasting the animals Prof. Day reports very fair results from nearly
all the remedies mentioned, but the all the remedies mentioned, but the oil oi mal
shield fern with castor oil proved very effective and appears to be enticely harrnless to the ani mals. The main ohjection to it is the cost which
runs in the neighborhood of five cents per aniruns in the neighborhood of five cents per ani-
mal for each treatment. Copper sulphate also has proved very effective and is very cheap, the cost being a mere trifle fo it will not do to repeat the dose in a feev, dayd
as is sometimes done with At least a week should he allowed to elapse between treatments, if a second treatment is
given. At Guelph two treatments are usually given
about a month apart. When drenchinr be sure that it is standing in a natural pesitio on its feet (not in a crouching position). Fiold than the eyes, and pour the liquid is no lighe

A Few Useful Hints. The following outline of preventive and curative treatments of some of the common stock ailments which confront the breeder and feeder are sent out by Charles Keene, Professor of compara-
tive medicine, San Francisco Veterinary College: Disturbances in digestion are by far the most indisposition in a cow the food should be investigated, and at this time if a saline purgative is administered the attack will often be averted. A drench consisting of one to one and a half pounds is the best purgative at this time.
Inflammation of udder in cows is often infectious and can be carried from the affected to healthy members of the herd on the hands of the milkers. A good practice to follow is to segre-
gate any animal showing disease of the udder until it has recovered. The milker should wash and disinfect his hands after milking such a colw. Depraved appetite (pica) in cows, in which they


Champion Border Leicester Ram
The best of the breed shown at Glasgow, 1913.
eat dirt, gravel, etc., is generally the forerunner of to a deficiency of bone-forming elements in the food. Finely ground bone meal added to the cows should also have access to a piece of rock salt where it can be licked at will.
Young calves
such as inflammation from a variety of diseases, such as inflammation of the joints (joint-inl),
diarrhoea, and pneumonia, that are due to infec tion taking place through the unhealed umbilical cord (navel string). These affections can be stopped by a thorough cleaning and disinfection
of the calf barn, and washing the 3 per cent. solution of creolin, after which a it with tincture of iodine.
Cows lose their calves (abort) from a variety prevalent. However, infectious abortion is very For this reason, taike no chances immediately every cow' as soon as she shows siat of impending abortion. When she aborts burn the calf and its memioranes. Clean up and disa 3 per cent. solution of creolin. Kind parts with of the herd until all signs of discharges have disappeared.
Never use
unless you are sure the calf is calf from a cow mioss you are sure the calf is in the right posi-
tion. Undue force used when the celf some positions will result in severe laceration and tearing of the cow and might result in death Flooding (excessive bleeding) which occurs after calving, can often be controlled dashing cold water over the loins of the cow. by Bloody milk is caused by injury to or disease
of the udder ; also by funct of the udder: also by functional derangement of the udder due to excitement in heat, eating of
irritant plants, etc. In all cases a reduction in
rations and ind rations and the administration of a purgative dose of (ilauber's or Epsom Salts is advisable a while. This hecomes red tioged after standing senco of a micreoorganism that enters the the pre after milking. Thorough athat onters the milk and sterilization of milk utensils will prevent the
condition. Wastitis (infiarmmation of the udder) may he the trats are an on or chaprough milking when the trata are one or chapued. Chapped teats
before and after milking. Several applications of zinc ointment to sore teats, after cleaning them, will relieve most cases stopped by tying it firmly with in a calf may be stopped by tying it firmly with a clean piece of
string. Before tying always be careful to examine the cord to see that it does not contain a
loop of the bowel.

## Age of Breeding Sows.

A California bulletin, discussing the compara tive values of young and old sows as breeders, says:
om breeders have an idea that sows one yoar of age are more desirable than older sows justified by experiment. An average of the weights of pigs at farrowing time at this and That sows two stations shows the following. per cent more pigs two years old, or older, produced sigs, that sows produced pigs 12 per cent $h e a v i e r ~ t h a n ~$
those produced by the yearling sows. Such statistics show that it is m istake to
sacrifice the older sows and depend on you undried gilts, $\begin{gathered}\text { It is } \\ \text { unue that old sows }\end{gathered}$ often thecome so heavy r so fat that they lie young pigs, or they coth, which helps to trouble. When their usefulness is impaired in thiis way, they not until then.
This is a point
worth noting.
We have known pig feeders
to keen voung so w io keep young sow
rom a litter and breed them early, taking one or two litters fro ${ }^{\prime} m$ hem and then feeding practice with :other
young sows, Practical experience proves that smallear litters and
smaller pigs are farsmawler pigs are /far-
rowed by young /sows than by mature sows. Think this over before ducer of large litters.
The young sow worth is proven.

## THE FARM.

## Corn Cultivation

contained in suggestions on corn cultivation are "How to Grow S. Farmers' Bulletin 537 entitled few of the pithiest. Acre of Corn." We quote a To produce a
quire warmth, a certain amount, corn roots re siderable moisture. Corn is cultivated in order
to supply these to supply these requirements.
as surely much water and too little air in the soil too little water. growth as too much air and Air is deficient in saturated soils, and on such解

Good cultivation at the proper tine admits air, lessens the escape of water from the subsoil, a better growth become warmer and stimulates Weeds should be killed as soon as they begin to grow, but the primary reason for cultivating moisture in the soil.
If prolonged and heavy rains pack the soil to be given to advantage while thon can sometimes a foot tall.
Soon after the plants become a foot tall their coots reach across the spaces between rows, and A deeper cultivation is likely A shallow cultivation should ben after every heavy rain as the be given as soon he giverkable condition. The cultivation should manner as to leave the soil in 'a fine, loose, It is never safe to allow the soil surface to adrantare hard and too dry to cultivate to the best advantage. Continued dry weather with the
soil in this condition is certain to reduce the
$\qquad$
yield materially, and cultivating such soil results
jo still greater injury. in still greater injury.
Untill the silking period the soil surface should bo kept in a fine, loose condition, so that walk-
ing on it when dry it is felt to give under the feet and distinct footprints are give under the Shallow cultivations given made. silking tis Weeds growing in the corn at silking time reduce the yields very materially, as has been con-
clusively clusively proved by experiments conducted by the
olfeo of Corn Investigations.
Under some conditions six or eight Under some conditions six or eight cultiva-
tions are advisable, while under other conditions three cultivations may be sufficient to keep the
soil in proper condition, and would the poro more proftable than a greater number.

## The Mission of Sweet Clover.

 Legislators in many states have declared by their enactments that sweet clover is a weed, as uuickly as possible by the hand of the die minator. Such legislation has been the exter was maide by men who did not know the good pointsWhich are those good points it may be asked? They are many. conditions. These inchue sandy and gravelly
soils, climatic conditions of short rainfall, and where so much alksli is in the soil that many other useful plants will not grow. It will also
endure much heat and cold, and it is both a soil enricher and a supplier of humus to the soil. Moreover it has been found that in some areas
live stock may be so accustomed to its use that. live stock may be so accustomed to its use that
they will thrive upon its pasture, and on the hay they will thrive upon its pasture, and on the hay
that may be produced from int. A plant possessed of so many good qualities should not not be proscribed as a noxious weed, as it may, in
several ways, be made to render substantial servire to farmers.
grown on any soil it adds to the fertility, When would be of but little account if other legumes of higher economic value would do the same. But
over these it has the great advantage that it will over these it has the great advantage that it will
grow where these would fail. For instance, it Will grow on millions of acres in the West where
clover could not be grown, because of the dry clover could not be grown, because of the dry conditions. It will also grow on lands so
strongly impregnated
with alkali that ordinary grain crops cannot be grown on these and in its growth it tends more or less to remove the alkali. Moreover because of its rank growth it
may be made to store the land with humus may be made to store the land with humus It about the same as for sweet clover, and bexause of this, the growing of sweet clover may prepare
the land for the succoessful growing of alfalfa. In the Canadian West, this plant may be used been taken from them by excessive cropying How can this be managed? By sowing a few pounds of seed per are on the spring grain
The clover would not harm the grain that sea The clover would not harm the grain that sea-
son. The next spring it ought to make a most son. The next spring it ought to make a mos
vigorous growth. As it makes growth early in
the seas it vigorous growth. As it makes growth early in
the season, it may. be buried inJune, and when so burien a crop of millet may be berown. If the the
land is to be summer-fallowed it may be buried land is to be summer-fallowed it may be buried
before the blooming stage. In addition to addlng to the fertility of the land it will fill it with
lng a mass of vegetable matter that will add to the
humus supply a mass supply, and that will add wreatly to the
homest
moisture-holding power of the soil. The only moisture-holding power of the soil. The only
added cost would be the cost of the seed. It may be asked, how can this plant 'render
service by inoculating the soil for alfalfa when the inoculating germilating are supposed to be prac tically similar? It does it in this way. The
sweet-clover plant is of stronger growth. sweet-clover plant is of stronger growth. It will
make a good growth where alfalfa plants would not succeed at the first because of the scarcity
of the ine of the inoculating material. The growth of
sweet clover on the land would lead to the rapid multipicication of the bacteria, and this would set. That sweet clover will have an important mis-
sion as a pasture plant in the Canadian West is sion as a pasture plant in the Canadian West is
somewhat doubtful, as other pasture grasses can be grown that are better relished. tt is different
in the Southern in the Southern States where such grasses will
not grow so well.
But there may be some places not grow so well. But there may be some places be
in the Canadian west where this plant may be grown for hay, as for instance on sandy lands
low in fertility where alfalfa has not yet been stablished. But when grown for hay it ough the be cut at an early stage of gr
the lants from becoming woody
This plant should not prove troublesome as a
weed. It Weed. It is a biennial, hence if it is prevented
from going to seed the self sowing of the crop will cease. Of course other plants may come up them. The only way the plants can multiply is the seed.-Prof. Thos. Shaw.

A Round Cement Water Tank. In a recent issue I see a short article on Weldhave built intending to puid intending to build one and would like to yet the
benefit of your experience.
What size tank diameter? What thickness is the wall and is it better to have it double with an air
space? Shoullu the hall, space? Should the hole be dug below any chance be all right set on top of the ground ? I I am get-
ting ting silo rings to build mine and we are not sure how small they can be drawn in. Would 8 feet
be too big across 2


Mr. Bradt's Milk Hiouse and Milk Cooler.
feet inswer. Our round cement water tank is ten foundation walls two feet below floor level, which is about on the ground level. The wall is seven and a half inches thick at floor, tapering to five gravel mixed about 1-5. It took seven loads of rravel @ $\$ 1.34$ laid down, 12 zbbls. cement @
$\$ 1.75$, and a yard of small stone and a lot of twisted strauds of old barb wire of no value, took $145 \frac{1}{2}$ hours of men's time and 22 hours horse time getting and returning the curbs, mak-
Referring specifically to your questions would
would cost considerably more if made art


Plan of Thos. Bradt's Dairy.

With a roof (which ours has not as yet) we think a solid-wall tank, properly
We would suggest a foundation wall at least two feet deep. The floor is all right on ground level, or above it if desired to secure a head. Eight feet across is not too large, unless you
need to run the tank up high to secure pressure. In that case the greater diameter would give superfluous capacity and add unnecessarily to the ost. We fear that no silo builder will care to have his rings drawn to a diameter of less than
eight feet. Our tank is for barn use only, is
filled by a windmill, and supplies thirty to forty
lone upon the cash balance on crop depends not in any particular year. An important point is the condition in which it leaves the land for subsequent cropping. An American author brings out this po
ing ${ }^{\text {a }}$ Alf "Alfalfa, clover, and similar plants send their roots to a great depth, and are the best crops lo turn under for the purpose of growing a very most economical way of subsofling land. Th deep-growing roats loosen the subsoil and keep
it porous long after the crop is turned under. it porous long after the crop is turned under Without sufficient rainfall poor crops of corn may
be obtained on alfalfa sod, the soil moisture having been exhnusted to a great depth by the at falfa. roots, Subject to this exception, immense
crops of corn usually follow alfalfa.

## THE DAIRY.

## A Convenient Milk House.

Editor ' 'The Farmer's Advocate.
Milk should be cooled as soon as possible low a temperature a possible, and the lost way to do this is to hav mers in our neichbowihood heve witl houses an send their milk to the Aylmer milk解 necosery to cool the milk to 58 degrees or lower for this factory.
The bacterial growth is what causes milk to spoil and low temperature will make this growth nuch
A good saimple of milk will have about 500 clean place at a temperature of 70 degrees for 24 hours will have 50 millions or more bacteria or a teaspoonful. You will see by this how important it is to cool the milk at once, as when the bacterial growth once forms the milk can never be made as good again, and the cheefe
factory or condensery cannot make as good an article with it.
We built our milk house ourselves, and it cost
abqut $\$ 50$, not including our labor. This is the about $\$ 50$, not including our labor. This is the
second milk house we have built, and we helped a nelghbor bulld one,
but $t$ his is one of
the most convenient I have seen at any The cement tank is one inch from the
wall. The middie
wall in the wall in the tank has a one-inch hole leve
with the ffoor another about five inches from the top.
These holes ca $n$. These holes ca a $n$ be plugged and only one
tanks used when we haven't enough milk
for both. The floor slopes slightly to
wards the overflow wards the overfiow The overflow 'is a
upright pipe which
screws into a union which is level with
the floor. This upright pipe can be screwed out and a
the water run out the tank k . The
water is 17 . Thche deep, and the tank 22 inches deep The water runs in the coll of pipe
the bottom an comes out at the
top. The milk runs over the outside of
the coil and at the top where the strikes the coldest "water last. Dur water is 50 degrees at the milk house and 47 at the We got this cooler, 18 cans like those shown in the pioture, a round milk strainer for straining direct in the cans in the winter, and a square
strainer which fits in the feed tank strainer which fits in the feed tank on the cooler
from the milk-condensing factory. The milk is set in the water tank cooled and if the water gets warm on Sunday the engine is started and cold water pumped into the tank.
hree "irons which have hooks at the lower end. May 1st number " "Wpormar's Advocate" readers A 1 -inch pipe runs from this tank near the top which is not used in the cooler to the cement tank. A short pipe runs from the upright pipe o the cement tank and has a valve at the end this valve is closed. The cooler supply tank is a hall-barrel and a tap is screwed into it at the oottom with a hose attached, which leads to the cooler. A valve is at the lower end of the long
upright pipe which is worked by a stick which has two iron prongs on the end to fit it. This can be closed and the pipe taken off in winter H there is any danger of it freezing. It should not freeze in the coldest weather if a little
water is pumped every day. The pipe runs water is pumped every day. The pipe runs so the pipe can be taken out if it is ever necessary. A layer of gravel is under all the wall and tile drain leads the water from this. The cement tank is put in so that the bottom of the
cement of it is about level with the top of the other floor. This was done so that the frost would not break it as might, happen if it and the
floor were altogether. Iron rods are bedded in the loor were altogether. Iron rods are bedded in the cement of the top of them for the cans to rest on level of the top of them for the cans to rest on
when being lifted into the tank. This will save
the walls from being broken.
To put the milk on the milk stand we lay milk stand and stand on them to wit the cans out of the tank on to the boards. Then it is only a 14-inch lift from there to the milk stand. than much easier to lift the cans out this way than to stand on the floor and lift them out on
thie floor and then carry them to the door. as nearly everyone does. If you will try laying some boards across a tank and standing on them as I have described you will see
is , and one person can do it.

We have a large water tank lower ground than the mftr-house, and the water from the overfow pipe and cooler runs to it for the stock to drink, If you cannot arrange it this way the overftow pipe should run into a tile. The end of
the hose which leads the warm water from the ooler is put into the overllow pipe so it will not warm the water in the tank
The cooler, pails, and strainer should be
washed well every time they are used and every Washed well every time they are used, and every
wo or three days we scour them thoroughly with wo or three days we scour them thoroughly with a hrush and a cleansing powder, as water alone
will not keep them clean enough. If the cooler sn't cleaned in this way the milk will run over it too fast and will not cool. The cans are all
washed and scalded with steam at the factory. In my article on dairy farm management


A Shady Pasture
Trees give great protection from sun and flies, and increase the millk flow.
and it is now a recognized fact that we can control rot in plums and cherries, brown rot in peaches and grapes, mildew on grapes and gooseberries, apple scab and pear scab, curl leaf on peaches, shot-hole fungus and blistermite, all of
the above diseases and insects being effecutally controlled by the use of lime sulphur, applied at the proper time in the season. San Jose scale is getting more widely distributed over the 'province than most people are aware of the following counties: Essex, Kent, Elgin, Norfolk, Oxford, Middlesex, Lambton, Wentworth, Lincoln and Welland. Here I want to give a word of warn-
ing. In districts where scale has been found I ing. In districts where scale has been found I inspectors, because the scale will no doubt get bad and seriously injure the orchards before the
owner is aware of its presence. All through the Niagara district local inspectors. have been appointed, and injury from tent caterpillar and cankerworm is practically unknown, and San Jose Wentworth Co.. Ont

ALTER E. BIGGAR.

## A Job for Mr. McArthur

$\qquad$
So far this has been a slow season for growth but although hay crop promises to be light, still pasture has been good, and our recent rain im proved conditions greatiy

This district suffered somewhat with the frosts, still not nearly so badly as others. Our alfalratly stood the winter all right, and in the warm weather the spring, started growth and then the frosts that followed heaved it each one farther out of the ground.
The fruit crop of this distri
good, and, in some orchards, ahead promises to be Thinning of fruit is not done around here, but our own orchard is in need of it, as the Russets, loaded. Maybe Mr. McArthur would like to do some thinning if he knew where there was an orchard that needed it. However, I hope he does nct feel so had over the failure of his own orchard as to forget to sow the cover crop thi
year. My own is sowed, and is buckwheat. This year sees several more silos being built and before long this will be known as a corn county
The corn looks fair, but several plowed thei mangels down, and resowed turnips or buckwheat.
There seems to be a difference of opinion stay to the hill planting and cultivate both ways whle others sow with seed drill. For my own part I like the rows, as the corn binder does
 Perth Co., Ont. J. H. MULHOLLAND.

Flea-beetles and Their Control. The Flea-Beetles are an important group of They are particularly destructive to the leaves o several kinds of vegetable crops, such as turnips ury is effected in spring and early The chief in he plants are visited by large numbers of the eetles. Numerous small holes are eaten int and through the leaves, in fact, some of the species completely defoliate certain plants. Ow given the popular name of flea-beetles. In size hey range from one-twentieth to one-quarter of inch. In Canada there are five species which re of considerable economic importanse, and ssued Entomological and firculared in a recently Gibson, chief assistant entomologist, Experimental Farms, Ottawa, on "F:ea-Beetles and their eight other secies which descriptions are give in destructive species which occasionally appear f Control" gives full particulars as to remedie mast successful in the conrol of these insect
Branch, Department of Aprined from the Publication
The Hand of a Daniel
The stand you take on the public questions the day should meet with the approval of the the hand of a Daniel on the Bank Act Wishin the hand of a Daniel on the Bank Act. Wishin Wellington Co., Ont. ERNEST PARKINSON

## POULTRY.

## Lice Pówder and Disinfectant.

Many are the poultry houses which are in-
acted with lice, and many are the broody hens fected with lice, and many are the broody hens
which carry large numbers of these pests to young, chicks, the lice stunting growth in the young stock or killing it outright. The agricul-
soun experiment station of the University of tural experiment station on the Universty of
Coilorinia, in a bulletin on hatching and rearing chicks, gives two formulae, one a lice powder,
the other a cresol disinfectant. They are worth the others on
Liee powder: $1 \frac{1}{4}$ pints pasoline ; $\frac{1}{\text { F pint }}$ com-
mercial cresol ; 4 quarts plaster of Paris.
 and then siowly stir in the plaster of Paris until
an the liquid is taken up. Use enough of ' the
plaster of Paris to absorb the liquid and no more. Splater the resulting brownish powder on sheets
Spreaper to dry, and then store away in covered of paper to dry, and then store away in covered
cans. To use, take a large baking powder can,
pumch the cover full oo holes with a six-penny punch the cover fal of holes with a six-penny
nail, and fill the can with the powder. This
for males a goo sifer oo thoroughly sirt the
powder into the feathers arount the vent and
punder the wings, while an assistant is holding under the wings, while an assistant is holding
the hen up the shanks.
therk the powder the hen up by the shanks. Work the powder
into the feathers with the fingers. This is one
of the best powders. It is also. one of the cheapest.
Cresol

 Take a clean, five-gallon stone crock and pour enough water to thoroughly dissolve it-one-hal pint is usually sufficient. Allow the lye solution
to stand a few hours until cold. Then pour it very slowly, constaintly stirring, into the crock
oflinseed oil. Take four or five minutes in adding the lye solution to the linseed oil. Continue stir ting' for 20 to 30 minutes until a smooth thick soft
soap is formed. Then stir in the commercial soap is formed. Then stir in the commercial
cresol, which will dilute and blemd with the soap to orm a clear, red brown liquid A 3 per cent mixture of the alo. ave stock solu-
tion is strong enough for all ordinary disinfec tion; as cresol is extremely powerful in its sction When diluted in this way a thin milky liquid re
sults, which can be applied with brush or spray pump, The latter is best, because with it the
insinfectant can be forced into every crack and

## FARM BULLETIN.

Up Early.
In th: course of human events it became necessary for me to be up at dawn. This is not pose of scattering abroad the impression that I am one of these abnormal early risers. It frished before nine o'clock on Monday morningnot farm work-and the only way to get it done was to get up with the hens. I did even better
than that. ${ }_{\text {I }}$ got up with the lams duck--the one that survived the annual slaughter, Lecause
she had been hurt and was lean. She is the
while the roosters earest still on their perches and crowing to tell the
sun it it sun it is time to get up, the lame duck gives a
hungry squawk and starts for the pasture field to hunt for chilled and sleepy insects. She was giving her frrst squawk when I was getting out
of bed . When I got out and
thing thound the first
that sity thing that struck me was the unfamiliarity of
everything I saw. I suppose I could count on the fingers of one hand the number of times I caue of this every $\begin{aligned} & \text { ching looked strange. For the } \\ & \text { first time } I \text { realized that morning twilight is en- }\end{aligned}$ tirely different from evening twilight. Because
you enter it from the darkness you see things in a much fainter light. In the evening you enter
the twilight from the glare of dav, and the impression is not nearly so ghostly. And then the morning twilight was so still that I Plet as hone-
some as if $I$ were in a wilderness.
Nothing hudifferent. Everybody is rushing to get the last chores done, the children are playing and shout-
ing, and the twilight hour is full of life. For
For a change the morning hour seemed
alluring of the two. In the early light the grass was silvery grey Once or twice in the past, when up at this hour,
I have heard the birds in their early morning concert, but on this particular morning only one
lone song sparrow was singing. There was much cheeping and twitteritig in the trees, but neither
the robin nor the brown thrasher favored $m e$
with morning voluntaries. As the sun began to peep over the distaries. As the sur began to
sound was hes. sound was heard. A man, somewhere in the
silient distance, was driviñ a
out of his out of his garden, or out af night-ieding pig
where it should not have bether place Where it should not have been. A s soon as the
first rays struck the mist to the east they made a glowing path towards the sun, just as you
often see when it is shining across water. Then the mist all became rosy red, and the dew Thon on the grass began to flash with lile ht. As 1
looked I recalled the picture that Milton garden of eden.
Nivan morn, her
 peared, and anothes the play of colors disap. Human sounds began to come from hary begun,
tion direc tion, and the lonely spell of the morning was
broken.
pared with the blaze of midd-day reminded comthe fact that there were some wise men men the pioneers. I remember at least two proser ous families whose oplder members madeo it ad
practice to be up before the sun every morning. practice to be up before the sun every morning.
They would work until about ten o'clock, then they would wave dinner and sleep or or reat until about four in the afternoon. After the heat of the day was over they would have another long session of work,
and in and in that way thee accomplished as much or
more than those who "bore the burden and the heat of the day," In many of the warmer countries it it still the custom to have a nern day sleep or siesta, but the idea does, not seem
to have taken hold in Canada, though we have many days that are too hot for any human be ing to work in the open sun. I suppose the
idea of a noon-day sleep would seem insufferably didea of a noon-day sleep would sem insufferably
lazy to many of our most industrions citize but from five to ten in the morning and from three to eight in the afternoon would give a legal day's work in the best working hours of the day. There may be sorme people who work
from dawn till dark, but the vast majority sleep through a couple of hours of light in the mornling, and then sit up for a couple of hours by
lamplight every night-a foolish practice which lamplight every night-a foolish practice which
has enabled Rockefeller to make his fortune by selling cual oil.

Even the few apples we have this year are de-
veloping in an entirely different way from the veloping in an entirely different way from the
ones we had last year. Although the trees were loaded last spring hardly an apple fell off, and
they had to be thinned during the summer. This season although none of the trees are heavily have shrivelled and fallen. I wonder if the cultivation has anything to do with that? Last
year the orchard was thoroughly worked and year the orchard was thoroughly worked and
fertilized, but this year,o although it has been fertilized, it has been allowed to go to grass. Another thing I have noticed with some disquiet is that in spite of three thorough sprayings many
of the apples are already showing sigas of scab. Indeed, a visiting expert told me that the scab is unusually developed for this time of year. As
a rule it is retarded loy a cold spring, but already the apples affected are strongly marked, leaves that I mentioned some weeks ago are now
shrivelled and will probably fall off. Some specimens that were sent to Guelph brought the report that the trouble was probably due to the
frost. This explanation was not given as final and I am inclined to doult it, for all the other leaves that were affected by frost shrivelled and

We had a few minutes of futile excitement this morning swarming. We have only one hive, the sole survivor of winter before last. Last season it was so weak that it did not give off a swarm,
and barely managed to pull through. This spring and barely managed to pas good and strong, and preparations were made to get at least one swarm. When I went out to look at them the air was full of bees
and they had begun to cluster on a branch and they had begun to cluster on a branch on a spruce tree aickly as possible I fixed a veil on a hat, put on an overcoat and gloves und go ready to hive the swarm in the most approved pointment. evidently changed their minds, and were all trooping back into the old hive. That waa several hours ago, and apparently the new swarm a phase of bee-keeping that is beyond me, and to-night I shall have to consult with a beekeeper Although they began to swhirm in the usual way
they did not stay out of the hive for more than

The Spring Grove-Springhurst Shorthorn Sale. As announced through these columns, the dis Shorthom of Robson. Ilderton, with a selection of four from the Springhurst herd of Harry Smith, Hay, Ont. ook place at Spring Grove Farm, Ilderton, June Twenty-seven head were disposed of at the he good things not selling quite as high as their uality warranted, while others made very good prices indeed. About two hundred lovers of the reed were present, most of them from Ontari points, with a few from the States. All the nocked down to ontario buyers, many remaining in the district round about Ilderton. The high est price of the sale, $\$ 470$, was paid by BA. de Gex, Kerrwood, Ont., for the smooth, deep, thickButterfly, with a roan bull call at foot. F. C. Willmott and Sons, Milton, Ont., got Maylower Gift (inep.) for $\$ 310$, the second highest price of the offering. The stock hull Victorlan fell to the
bid of Geo. Andrews, Elimville, Ont., at $\$ 250$. Jos. White, St Marys, got o bargain in the yearling heifer, Miss Mayflower, one of the choicest things of the entire offering, and bought at $\$ 185$. The following is a list of cattle, prices:-Females-
Robina 3rd (imp.)-Leslie Christie, Ancastor, \$145 Primrose 2nd (imp.)-Thos, Henderson, 150 Glencoe ................................... 150
Frosemary 124 th-Jas. Tancock, London ..... 180 Rose of Strathleven-F. C. Willmott and 160 Mayflower Gift (imp.)- - $\quad$. C. Willmott and Miss Mans, Milton ................ ...... ...... 810 Belmar Miss Ramsden 4th-Jno. Ferguson, Belle of the Morning-Jos. White ............................ Vanity 19th-1R. and A. Morrell, Belton......... 95 Lady Butterfly-Ed. de Gex, Kerrwood Princess Butterfly-Fd. de Gex .... Il ............. Butterfly's Queen 3rd-Robt. Miller, Stouff - ville Athelstane Rosewood 3rd-H. C. Rosenberger, Erina-A. Burchill, Newbury ..... N........ ... 1885 Clipper of the Manor 7th-W. Hall,Ilderton 155 Merry Duchess -W. Hall ….... .............. 105 Lady Monarch-Herbert Weeks, Glencoe........
Buchan Fancy 24th-J ohn Miller, juir. Buchan Fancy 24 til- ....... ........ ........... 95 Pireno-J. A. Mallough, Dungannon ............ 165 May Apple-Martin Hay, Ilderton, .............
Athelstane Rosalind-Jos. Ardiel, SalmonBarrington Iady $\because \mathrm{th}$-Wm. Shipley, Denfold Bulls
ictorlan-Geo. Andrews, Eilimville ..... 250 Victor Rasewood-Hugh Thompson, St. 160 Twenty-seven head hrought $\$ 4,550$, or an
average of $\$ 168.51$ each.

## A Prelude to the International

 Horse Show.On June 13th and 14th, at Rtchrmond, surrey ngland, the local horse show was held, fescinatog 30,000 spectators, including one King and ct Que3ns, and could honestly be said io have acted as a prelude to the International ficrse and A. G Venderbilt each took- a floet of horses to Richmond and got well among the prize money.
The strife between these exhibitors and the Britishers is keenness itselt, and although the visitors did well in the coaching events, we, of harness classes as the details below will prove:The open classas for single harness horwes, over 14 hands and not exceeding 15 hands, had an Ayr, at seventeen. Philip Smith's Queen of Mr. Judson's Sensation was second. He is a four-year-old, and shows plenty of promiso, and his action is good, but he was a trife lucky to be so high up in this company. Judge Moore's
Whitowall Ariel, well-known Yorkshire-bred one. was third, and another Yorkshire-bred mare was reserve in Philip Smith's Melbourne Princess. The class for novice harness horses, 15 hands and oover, had a large entry of twenty-three. Judge Moore won with Vida Fayre, a very stylish
mare, with fine action. Second went to W. A. mare, with fine action. Second

The class for single harness horses, over 15
hands, had an entry of 26, of which 14. were for one's own purposes to do some planting, but than repressed. The comparison between the
shown. Among them were several of the most it adds to the selling value. He asked them all
famous harness horses of the day, but to the to name their farms, and live up to the name. famous harness horses of the day, but
general surprise the winner did not spriag from among them. First prize went to Howard Frank's Roderick Dhu, an upstanding bay with a very good look-out. He moves well in front, and he King of the Air, who made a brilliant show, was a very good second, and II. Le Marchant's Gay thorn was third. Reserve went to T. W. Simp son's Argo.
There w
pairs of harness half-a-dozen entries in the class Smith's Queen of Ayr and Melbourne Princess won cleverly, second honors going to W. H. Xoore's
Whitewall Ariel -and Raeburn. W. Winan s Lon Whitewall Ariel and Raeburn. W. Winan s Lon
deshorough and Lonsdale taking third prize desborough and Lonsdale taking third prize teams over 15 haads, but only three came into the ring. Miss Ella C. Ross won with her Grand Vulcan and Grand Viscount, with Miss A. Syivia
Brocklebank's well-maatched and well-balanced greys, Optimistic and Opal, a very good second and Paul Hoffmann's new partners, Lord Hamsey and Warwick Marie third.
In tandem teams, 15 hands and under, Philip Smith's stylish team, Queen of Ayr and Mel pourne Princess, were first. As usual, they were
p. Menella and Phyllis ; Walter Winans was third with Londesborough and Lonsdale, and reserve
went to C. Rätclif̃e's Peterston'Pearl and Peterston Princess.
The challenge cup for the best pair of harness horses went to W. H. Moore's well-known win Vanderbilt's Hamlet and Hermes rers, with A. G Kerr Challenge Cup was won by Philip Smith' Queen of Ayr, with Howard Frank's Roderick Dhu reserve, and Queen of Ayr took the Hackney Society's gold medal.
any heirht, undocke any height, undocked, and to be driven without
the bearing reins, did not fill very well. Winans was first, second, and third with Sunset, a well-balanced bay, and a fine mover, Oberon, a
good-looking grey, with substance and quality and Eros, there being only three others entered The challenge cup for the best four-1n-hand team brought out a grand lot, seven of the ten with a team of bays, stylish horses, and won movers, but by no means such a well-balance team as Miss Ella C. Ross's famous blacks, whic are alike in action as well as color. There was leaders and wheelers, More There were 22 competitors in the Coachin Marathon event. In the section for privat coaches, Judge Moore won with a well-balanced team of greys-a little stronger, but perhaps not
quite so stylish as Mr. Vanderbilt's bays that were second. Third prize went to Sir Edwar Stern, who, as usual, drove blue roans, and Miss Brocklebarik's workmanlike team was placed next In the road section, Vanderbilt's greys were to well-matched team. Craig McKerrow's ""Rey nard" team came next, a sporting team of crossed bays and greys.
13 In the Coaching Club class eight out of the sented a lively appearance. Sir Lindsay Lind-sa,y-flogg won with a well-balanced team of dark chestnuts that go well together-a very popular
victory. Then came Vanderbilt's bays team, with scarcely so much timber about stylish M. Martinez de Hoz was third with a team of chestnuts, and Alan Lupton was fourth with a workmanlike team of browns, rather on the
strong side. strong side.
were reserve. London, England $\qquad$
New Buildings and Lessons at O.A.C Notwithstanding the laudable effort of the C
P. R. to carry the lessons of the Agricultural
College to standing, too, a tiphtening of axcursion term and rates, between fifteen and twenty thousand tario Agricultural College Gi!grimage to the On sions were bunched more than usual this excuthe whole series being run off in ten days. Th crowds were keenly interested. President Creel
man doesn't know when the more questions. Besides enquiring about farm and garden crops, they asked the names of trees,
shrubs, and lawn mixtures. The President emphasized to there the need for better hom
surroundings. He is repeatedly asked hy enquiring for farm property whether the places
in question have any treac in question have any treess around them. Tlaces
are willing to pay more for a farm with a wind-
break of few deciduous tres around the huildiners and
bit of a fawn. So it not onty improves a farm
o marked that anyone carge and see it all seed is and this, too, in the case of every . variety practically all comparisons the large,plump seed gives the greater yield, except occasionally in th ase the from crowding towards heading time than the ess stocky plants from the small seed, and con sequently do not always fill quite so will With medium or thin seedling the darger seed give much the better result, the same number of it should be retmembered, when setting a drill, to llow for the smaller number of kernels pe Otherwise too few plants may result.

## Distribution of Federal Grant.

## The plan of the expenditure of the Ontari

 rnment's share of the Federal Agriculturi Grant for the current year has been finally approved by the Provincial Mlnister of Agri mits expenditures to instruction and. The Bil ion work Last year there was no special tion work. Last ylear there waslimitation.
Following are the itemss:District Representatives .A.C. Short Course. travelling and liv
ing expenses of winners of Acre Profit
Competition
To encourage agriculture in the public
Schools ... ... ... ......... ........ ...............
acational work in connection with
marketing of farm products, including
marketing of farm products, including
organization of co-operative societies
callection, printing and distribution of information on current prices and
systems of marketing .i................
Buildings at Ontario Agricultural College, including poultry building for adminis-
tration, class room and laboratory purposes ; to finish and equip Field Husbandry Building; Apiary Administration Building; to re-model and equip bacteriological department; exStock and Seed Judging Short Courses and Institute lecture work
Women's Institute work, including courses Short courses for fall fair and field-crop judges, including travelling and living expenses
Drainage work
emonstrations and instruction in vegetDemonstration work on soils
Dermonstrations and instruction on live stock and poultry $\ldots \ldots \ldots$.................. and packing of fruits ........ ........... Demonstrations in beekeeping additional land ......... ......... ......
Lecturers on
Miscellaneous

Hon. Martin Burrell, minister of agriculture visit the exposition for Europe, where fie wil studv of the intensive agricultural methods o Belgium


## Markets.

## Toronto.

beview of Last week's markets At West Toronto, on Monday, June 30, Nocipts at the Union yards numbered 61 100 sheep, and 107 calves. No sales. At the City yards, there were 6 cars,
comprising 93 cattle, 68 hogs, 66 sheep, and 55 calves. Market dull. Cattle
prices easier; good butchers', $\$ 6.25$ to
 lambs, $\$ 6$ to $\$ 9$ calves, $\$ 6$ to $\$ 9$
Hogs were quoted lower, at $\$ 9.35$ and watered, and $\$ 9$
The total receipts
city City and Unio
were as follows

|  | City. | Union. | Total |
| :---: | :---: | :---: | :---: |
| Cars ...... ...... | 15 | ${ }^{320}$ | 335 |
| Cattle .......... | 284 | 3,431 | 3,715 |
| Hogs ..... ..... | 125 | 6,615 | 6,740 |
| Stheep ...... ..... | 541 | 3,602 | 4,143 |
| Calves .......... | 202 | 1,176 |  |
| Horses |  | 45 | 45 |

for therresponding week of two yard


The combined receipts of live stock at
the two markets for the past week, show he decrease of 47 cars, 861 cattle, 16 togs, and 32 horses; but an increase o
292 sheop, and 114 calves, compare with the same week of 1912 . that the receipts of cattle were given large for the past week as they were tor
the previous week, or tor the correspond ing week of 1912. The quality of cattle
offered was not, as for the provious week, as there were more grass - fed, or, rather, finished on grass,
than at any previous, market this season, than at any previous market this season.
Export cattel and heavy butchers' doecined in price from 10 c . to 15 c . per
cwit., while ehoice, light, handy butchera cattle were firm, at last weeb's quota-
tions.
Sheep, lambs and hogs, all de$\underset{\substack{\text { frim. } \\ \text { Expo }}}{\substack{\text { and }}}$ Exporters. -Wm. Howard bught for
Switt's, of Chicago, 100 export cattle Yor London, England, as follows: Steers, at $\$ 6.90$ to 87.05, and bulls at 85.75 t
88 On Wednessay, the heary catile de
sined clined from . 10c. to 15 c . per cwt.
Butchers':-Choice butchers' heifers sold at $\$ 86.70$ to $\$ 6.90$; loads
good, $\$ 6.40$ to $\$ 66.65 ;$ medium $\$ 8$ ${ }_{\$ 8.30}$; common, $\$ 5.25$ to 85.90 ; cow $\$ 3$ to 85.75 ; bulls, $\$ 4.75$ to 85.75 .
Stockers and Feeders. $\rightarrow$ Market was uniter
 sold at at $\$ 4.75$ to $\$ 5.2 .25$.
milkers and Springers. Trade in milkranged trom 840 to 865 for the pilc ranged rom $\$ 40$ to $\$ 65$ tor the buir
the cous sald Calves.
Vrices for veal calves mained firm.
at
$\$ 8.50$
to $\begin{gathered}\text { Choice } \\ \$ 9 \\ \$ 9\end{gathered}$ at $\$ 5.57 .50$ to $\$ 8$, and common calve Sheep and Lambs. -Prices for sheep and
lambs were lower. Ewes, light, sold at
 $\$ 8$ to $\$ 9$ per cwt , and in some instances $\$ 9.50$ to $\$ 9.75$ per cwt. was paid for
selected lots of choice lambs. Hogs.-Selects, Yed and watered at th
market, sold at $\$ 9.50$ to $\$ 9.60$, and $\$ 9.15$. .o. . . .ars. at country points.
Horses. - Receipts of horses at the Union Horses.-Receipts of horses at the Union
Horse Exchange, Union Stock- yards, were light last week, but quite equal to the demand, as the summer quite season
has

 $\$ 1100$ to $\$ 200$; drivers, $\$ 100$ express horses
serviceably BREADSTUFFS.


THE FARMER'S ADVOCATE



Montreal. Live Stock.-The livestock market was cliner about $\ddagger$ c. per 1 b . the prices dether being one of the causes. The top
price for steers price for steers was 7c. per 1b. Fine
stock was available around 6lc. per lb. good quality sold at 6c. to 6 fc c.; medium to 4c. per 1b. The market for sheep showed little change, sales taking phace at 4 cac. per lb. Lambs ranged from $\$ 3$ to $\$ 5$ each, being a little lower than a week ago. Calves sold at $\$ 2$ to $\$ 5$ for ordinary quality, and up to $\$ 10$ each for
choicest.
Hogs were ago, and selected lots were sold at 10 to to 10 l c. per 1 lb ., while the common stock sold down to 9tc., weighed off cars. Horses. The tone of the market was
frm, but supplies were light and prices unchanged. Prices were as follows: Heavy-dratt horses, weighing from 1,500 to $\mathbf{1 , 7 0 0}$ lbs., $\$ 300$ to $\$ 350$; light-draft. 1,400 to 1,500 lbs., 8225 to $\$ 300$; light horses, 1,000 to 1,100 1bs., $\$ 125$ to $\$ 200$; broken-down, old animals, 875 to
8125 , and choice saddle and carriage 3125, and choice saddle and carriag animals, $\$ 350$ to 8500 each.
Poultry
as foultows:-Prices on poultry wore steady, lb,; geese and fowl, 15 c . to 170 . ducke 20c. to 22 c ., and chickens, 18 c . to 19 c . Dressed Hogs.-Although the tone ot
the market was weaker, prices held Che market was weaker. prices held
steady.
Do to 14.c. persed hogs still sord at abatoir -drosed
tresh-killed.
Potatoes. - The market was again on
the oasy side, and prices declined to 75 c
 tains, carloads, on track. Quebece pota-
toes were also lower in price, being 60 c
 syrup than carloads.
Syrup and Honey. -There was no change
in syrup and honey. Threo-quart ting maple syup cost tosc. to 95c.s.syrup in
wood was 7c. to 8c., and maple sugar, wood was 7 c. to to c.,. and maple sugar,
11e. to 12 c . per 1 b . Honey was steady 11c. to 12c. per li. Honey was steady,
and was quoted as follows . White-clower
 Egge. There was an active demand for
all the egge offered and


ter

 quoted at a range of 25 fyc . to 26 c . per
lb., while fine quality could be had at about yc. to 1e. under this figure, and
other grades at still less. Dairy butter
other grades at still less. Dairy butter
held at 22.. to 23. per lb.
Cheese.-Prices advanced, the quality
greatly improved. Western white wa
greatly improved. Western white was
13. to 13 fc ., and sold at a premín of
about tc. over colored. Eastern white
about tc. over colored. $\begin{aligned} & \text { Eastern white } \\ & \text { was quoted at } 12 \mathrm{gc} \text {. to } \\ & \text { also } 12 \mathrm{qc} \text {., and was }\end{aligned}$
also $\mathbf{t c}$. over colored.
Grain.-Local grain dealers quoted a
fillows.
follows: No. 2 Canadian Western oats,
41 c . to 42 c . ex store; No. 1 extra feed,
${ }^{41 \mathrm{c} .} \mathrm{to}{ }^{42 \mathrm{c} .}$ ex store; No. 1 extra feed
Western, 40e. to 40 द्यc.
Flour.-Prices advanced to 85 per bar-
rel, for Manitoba first patents, in bags; $\$ 5.10$ for second, and $\$ 4.90$ for strong $\$ 5.50$ for patents, and $\$ 5.10$ for straight
rollers.
Millfeed
Millfeed-LLocal mills quoted $\$ 18$ per
ton for bran in bags, ton lor bran in bags, and shorts $\$ 19$,
while middlings were $\$ 22$. Mouille was quoted at $\$ 30$ to $\$ 32$ per ton for pure,
and $\$ 26$ to $\$ 28$ for mixed. and $\$ 22$ to $\$ 28$ for mixed.
Hay.-Prices
were
$\$ 12.50$
to 13 per Hay.-Prices were $\$ 12.50$ to $\$ 13$ per
ton for No. 1 baled hay, car lots, track;
$\$ 11.50$ to $\$ 12$ for No. 2 extra: $\$ 9.50$ t $\$ 11.50$ to $\$ 12$ for No. 2 extra; $\$ 9.50$ to
$\$ 10$ for No. 2 ordinary. $\$ 10$ for No. 2 ordinary.
Hides.- Prices
Hides.-Prices were again higher on
lamb skins. Bee? hides
 and 1 hides, respectively. Cali skins
were 17 c . and 19c. per $\mathrm{b} . \mathrm{r}$ respectively. for Nos. 2 and 1. Lamb gkins were 25e,
and 30 c . each, and horse hides $\$ 1.75$ and and
$\$ 2.50$ each.
per lb. for

Buffalo.
Cattle,-Prime steers, $\$ 8.75$ to $\$ 9$ $\$ 8.50$; $\$ 8$ to 8.65 ; butchers ${ }^{\circ}$; $\$ 7$ to 8.50; heifers, $\$ 0.75$ to $\$ 8.25$, cows tock eiters 85.50 to $\$ 6.50$ iresh springers, $\$ 2$ to $\$ 3$.
Hogs.-Heary and mixed, $\$ 9$ to $\$ 9.05$ Yorkers and pigs, $\$ 9.05$ to $\$ 9.10$; roughs, Yorkers and pigs, $\$ 9.05$ to $\$ 7.00$; stags, $\$ 5.50$ to $\$ 7.25$; deiries, $\$ 8.75$ to $\$ 9.05$.
Sheep and Lambs.-Lambs, $\$ 5$ to $\$ 8$; $\$ 5.25$; $\$ 4$ to $\$ 6.50$; wethers, $\$ 5$ to \$.25; ewes, $\$ 4.75$. $\qquad$
Questions and Answers. Miscellaneous.

## Pruning Evergreens.

Would you kinaly inform me the mosi seasonable time of the year to prune awn spruce trees ? Ans.-Early in the spring before growt

Devolution of Estate.
What is the law of succession in Brition ather and Have brother and sfatore and left property.
Ans.-If he died without a will and unmarried, the property, after paymen thereout of his debts and funeral and lestamentary expenses and succesolo

Accidents to Automobiles.
re municipalities in Ontario liable or damage incurred by automobilen through defective roads, providing they are running under their speed limit? 2. Has a township council power to sasue a by-law leaving automoblies at their own riek in their township?
Ontario.
SUBSCRIBER. Ans.-1. Generally speaking, yes. 2. We should doubt very much that

Four-cross Registration
What proceeding would I need to takd to get my ally regietered, the heving four registered crosses, if she is ellgible? These are the mares and imported horsen which I refer to: Lady, bred to sir Patriek (imp.), g.-g.-g.-g.; Maggle, bred to Scot's Baron (imp.), g.-g.-E.; Lady, bred to Rejector (imp.), g.-g.; Magglo bred to Milton Chief (imp.). J. N. AThe Ther all when Records oute. Nallonial Live stock hame the breed sires or other individuals concorned, may belong. When these happen to be well known, of course, it does not much mat always be avolid

Cow Chews Bones.
I have a cow which has the habit of chewing and sucking bones. She will soarch for thom, and when she maken and, she will spend all her time with is on grass, and well from her. She healthy, but is failing in flesh and milk ody. Tell me the cause and give rem. Anc.- The chewing of bones, wood, and be induced by a lack of phosphetes in the ood. An application of bone meal or been known to check the craving. Clive
the cow an ounce of phosphate of lime in a pint of cold water as a drench once daily, or on a little bran or chop. A
small, closed handful. of sitted wood
ashes in meal once or twice a week ion smas in meal once or twice a week is
ashes
believed to have a beneficial elfect.


Percé to Gaspé
(By Margaret Grant MacWhirter.) Our steamer reached Perce, of historic and legendary fame. This place has been
known to the world since 1534 , when Jachues Cartier vorid since it and gave to
geither Perce Rock or Mont Joli the name of Cap de Pres. Also, since the close of the Sxxteenth Century, the French con
tinued to visit the spot in search, even in those early days, of cod. Later, Champ lain from Quebec. frequivently sent booats to Perce with despuatches for France, An
infant colony was begun by Richard Denys colony wassas and a a chapel Ruilt by
the Recollet Fathers in 1673. the Recollet Fathers in 1673.
of $\begin{aligned} & \text { Remoret thevergh Percé was from the seat }\end{aligned}$ of war, nevertheless, in 1690, it
The two small vilages into which Perce (now the County Seat of Gaspes) is
divided are known as North and South divided are known as North and South
Beach, and between them is a headland
named Beach, and between them is a headiand
named Mont Joli, which is generaly sup-
posed to have been formerly joined to posed to have been formerly joined to
Pered Rock. The village nestles at the base of lofty Mount Ste. Anne, which
rises abruptly to the height of 1,300 feet. This mountain is a welcome sight to ves. sels coming up the St. Lawrence, being miles.
Grand beyond anything I had ever seen, towered the mountians at the rear
of Perce village which lies immedi of Perce vilage, which lies immediately
at the foot; while far above is the Cross at the foot; while far above in the cross
of Ste. Anne silhoutted against the sky. Involuntarily the words rose to my lips:
"Far from the madding crowd's ignoble
strife, "Fare from the madding crowa's ignoble
The inhabitants are descendants' of people who came from Guernsey, Jersey and France.
days a many is told that in the old war press men for the service. A man name Lago was taken and the king's shillin dropped into his pocket. Escaping, he
ran for his
ife, dodging betwen the fish ing buildings, whither the officer, de termined to have his man, followed in hot
pursuit Hearing his screams, his sister pursuit. Hearing his screams, his sister,
who in size was considerably above the average, hastened to the rescue and sud-
denly the officer was confronted by an denly the officer was confronted by an
angry woman armed with a hoe one well angry woman armed with a hoe, one well-
directed blow of which felled him to the ground, from whence he was carried aboard ship.
No farther
from Mant Jolil rises the immense bulk of Percé Rock. Dr. Clarke, in his "Sketches of Gaspé,
thus describes the great barrier: "Fifthus describes the great barrier: "Fif-
teen hundred feet long by two hundred and eighty-eight feet high at its peak or
anner point. At its greatest width it is inner point. At its greatest wid
about three hundred fee through about three hundred feet through
the rear of the great rock it self the rear of the great rock itself is per-
forated by an arched tunnel about sixty
feet high." feet high.
Startled by the steamer's whistle, in-
numerable gulls and cormorants flew into numerabie gylls and cormorants thew into
the air uttering loud cries, for the top of the "Piesced Rock,", though now inac-
cessible to man, makes a sale eyrie wherecessible to man, makes sa sate eyrie where-
on to rear thir young. A man on board
remarked the beauty and remarked the beauty and grandeur of the
scene; then, turning towards the Rock, he scene; then, turning towards the Rock, he
observed, "There's an old legend atobserved, "There's
tached to Percé Rock."
Long ago-so runs the tale - French frigate had come to Perce, where one of
the sailors met and fell in love with one of the sailors met and fell in love with one of
Perce's fair maidens. So infatuated was Perce's fair maidens. ${ }^{\text {Po inflatuate was }}$ desert his ship. Only one place of shelter
offered. and he succeeded in scaling offered, and he succeeded in scaling
Perce Rock, where he defied capture, eve under a fusillade from the frigat's, guns
When at length the man-o -war departed. When at length the man-o'-war departed, young Neptune was at liberty y o descend
from his retreat to his anxious lady-love.
When thanking my informant for the storyy I told him that the search of months
had been rewarded; hitherto I had sought
in vain for the legend of the Pierced Rock. in vain for the legend of the Pierced Rock
Sir Giibert Parker, in his ". Battle of the
Sta Strong,", "ives a different version of what
is probably the same tale. Still another story relates to a young woman who de creed to be wedded upon the erreat rock descended to a more lowly, lot
Still another, less romantic but more ghostly, tells how a pirate, aided by the Great Roc, buried his treasure upon the Great Rock; then slaying his man, lef to guard the gold.
was nough now inaccessible to man, it was not always so, for several of the firs inhabitants climbed the rock by, means of
ladders to cut the hay which flourishe there. However, a law was passed by the authorities forbidd ding the ascent in consequence of a. man having been killed
while attempting the feat. Now it is only barren rock.
The road from Percé to Corner of the The road from Perce to Corner of the Beach is through the mountans, "It
locally as "Though the Falls." exceedingly hilly and in many places pre-
cipitious, fanked on one side by a wall of cipitious, fanked on one side by a wall or
rock hundreds of feet high, while on the rock hundreds of feet high, whine on thi
other the rad over-reaches the cliff
whis which ine pload extertend didzzilly below.
There are five miles of this hilly and top. There are five miles of this hilly and toil
some road, but before the some road, but before the eye of the tra
veller extends a beautiful panorama velver extends a beautiful panorama
rivalling European scenery in beauty and picturesqueness. II time the road de- dion
scend to to sea-level, and at Corner of scends to the sea-level, and at Corner of
the Beach comences a long sand-bar the Beach commences an ong sind-b
four miles in extent. On the right, the waters of the Gulf of St. Lawrence roll in gently, and the air, laden with the tang
of the ocean beyond, comes as a refreshing of the ocean beyond, comes as a refreshing
breeze to the traveller who has been sweltering on the Percé hills. On the lef is the "Barachois" or lagoon, which at
high-water resembles a lake and hagain at high-water resembles a lake and again at
ebb-tide is a muddy flat ornamented with


Entrance to Gaspé, Que
occasional pools of water. On a hot sum
mer day a more pleasant drive could hai mer day a more pleasant drive could hard
ly be imagined, but, when the old roun storms of early winter prevail, there are Iew more inhospitable places than betweel
the two waters on the che two waters on the sand-bar at Bara
che means of a ferry in summa the crossing to the opposite shore is ac complished. Two-and-a-half miles from
the mainlad the mainland is Bonaventure Island
fully
two - and - - half miles by three-quarters of a mile broad. Here Messrs. Le Boutillier have a large fishing The entert place of importance on the
route is Point St. Pelet with route
fishing industries. The Mtessrs. . Te Mar
quand haven quand have a large establishment for the
capture of the valued coll which aid in these waters. A short which aibound the shore is the rocky illet of Plateutu, up-
on which a lighthouse has been erected?
for, insignificant as this rock would seem to be, it could tell a tale of a good ship
wrecked upon its jagged rocks-all board perishing
Across the expanse of water stands Ship Head, as though disputing the right-of way to the River St. Lawrence. Grim and unapproachable at the extreme eas
of the Peninsulla of Gaspé, the great head land forms a break-water, against which the "White Caps" dash in vain. On itt brow a lighthouse warns the mariner of it
presence. The rocks, popularly known presence. The rocks, populariy
as s.old man and woman," were familiar sights at Ship Head, but one has. suc
cumbed and the bereaved partner brave cumbed and the bereaved partner brave
the winds and waves alone. A road across the Peninsula leads to Fox River on the St. Lawrence. Grand
Grevee is an important place on Peninsula Grêve is an important place on Peninsu
with large fishing establish An old legend ofs Seal Rock, on the Ship
Head Road tells how the Head Road, tells how the quarter-dolla may still be pointed out, embedded in the majesty when setting with the fisherme with whom he had fished all summer. From Point St. Peter the steamer enter Gaspe Bay. Great bold cliffs, from one
hundred and fifty to two hundred feet high, rise perpendicularly, almost from the water's edge. A pretty dip in the high bank is Seal Cove
Douglastown is the place, with its Roman Catholic church which was the first one erected in this par of the country. The steamer drew up to the breakwater built out in the sea, from
which passengers, etc., are conveyed to the shore in a boat.
Seven miles farther and our 'good ship steamed into Gaspé wharf, and we hav reached our destination. Gaspe basin
a harbour so large and secure that it is haven for all kinds of craft- here they ca ride securely in this safe retreat, let the
wind blow and the sea lash asit will outside.
bear picturesque scenery and quie any other locality on the coast. Ti shape of the Basin is irreguar, being abo
four miles long, with an average width of about half a mile; but, so completely land locked, that even when a heavy gale pro
vails outside there is scarcely a vains outside there is scarcely a
seen on its clear, deep water." Every spot abounds in interest. In
this vicinity Jacques Cartier raised the Cross and Fleur de Lis, while in later days Wolfe paused on his way to the conquest
of Canada. Gaspé supplied Quebec wit fish until 1758. Through the kindness, of Mr. Hamon,
Agent of the "C.R.C." at Paspebiac, Agent of the "C.R.C.", at Paspebiac,
was permited to see an old picture
Gaspe Bay-the work Gaspe Bay-the work of Capt. Hare of
Smith -which is in their posiscsion, but
in which there is little resemblance to $t$ Gaspé of to-day
Gaspé had several visitations in the ole war-days. Large settlements were de stroyed in 1090,1711 , and by Wolfe found Gaspe was not unknown to the privateers men-of-war.
Despatches of the war testify French ship, "La Caterina," was sunk by Captain Byron in 1700 in Gaspe water but 1 was unable to ascertain the exac
location. Dr. John M. Clark, of the State Museum, Albany, has written an interesting pamphiet descriptive of Woortier
 old house near Cap de Rosie
The principal English settlers in Gaspe Basin were The earliest were the $\mathrm{O}^{\prime}$ Haras and Stewarts. The first patent was granted to Dean, Captain of the "Mermaid,"
1766 , and on this tract 1766 , and on this tract of land was For
Ramsey, a Government reserve for defensive purposes; while on June 17th 1767, a grant of 1,300 acres of land wa
given to Felix O'Hara and John McCord given to Felix O'Hara and John McCor
the patent bearing the signature of the patent bearing the signature of
Guy Carleton. Through the courtesy Mr. F. Richmond I was able to see the original document. O'Hara is said to Among the early missionaries are names of Suddard, Cuisack and Arnotd The stone house of the latter still remains
being owned by Dr. Peabody being owned by Dr. Peabody, of Ne
York. With the Episcopalians is honor of erecting the first place of worshi in the Basin. Today comfortable Episco charches represesnt the religious sentimen of Gaspé. Educational matters are no neglected. Model and Elementar schools, presided over by graduates of M
Gill and MacDonald Colleges attend these matters.
About sixty years ago the road was
built for the Govergo built for the Government by Messr
Russell $\&$ Sims Russell \& Sims, and for a quarter of
century Gaspé Basin has held up its hea as an incorporated village.
The Gaspe coast has been the scene of The Gaspe coast has been the scene of
numerous ship-wrecks. I interviewed a
 lreland, which was wrecked on Cap de The passengers were Irish emigrant bound for Ouebec. The passage had be
rough was twenty three days out whe blinding snow-storm the Captain go astray, and at two o' clock in the morning
the vessel struck the rock. Glad that the cold, disagreeable day was over, the pa sengers had retired to rest, when a tre mendous shock ensued, and the good ship
quivered like a living creature. The ves qel was within seventy-five or one hundred feet of the beach. She was lying on a even keel with set sails. Even though the
spars were cut, she turned over oug she spars were cut, she turned over on her side
and one stroke of the angry waves swept her clean.
Only seventeen or eighteen persons, in
cluding the crew ctuding ole by means of tores -reachit were drowned trying to escape; the chil dren were found the next morning in th Amongst the emigrants were the Crum-meys-father, mother and seven children Little Bridget, twelve years old, ran upon
deck with the other terrifed people, but how dreadful the sight which people, but Ere long the ship parted in the middle, precipitating many persons into the ic waters, screaming for the help which no
could , ive. Hastily the Cent ones were distributed A boy of six years clung to his father, one of eight to his mother; the elder siste clasped the baby, while Bridget held tight

The elder sister and the infant were endod by the cruel waters, and the poor springing to their rescue, with his By, sliared their fate. In the forecastle 2 umber of terrified creatures huddled fear they endured may be imagined, but tiy pen fails in the description. Finally they were rescued by the inhabitants. The beach presented a gruesome spec the being strewn for a mile-and-a-hal with dead bodies. The inhabitants were falsely accused of robbery, but I wa falsely accased informed that they were inno cent of the charge. If any pillaging wa done, the crew were the perpetrators. Heaps of five and six persons were common. For a whole day two ox-carts car ried the dead to two great deep trenche shich reck. In autumn the heavy storm wreep over their graves; thus peacefully vith no sound excepting those of the wind and waves which play a wild requiem ove
them, they rest awaiting the call of the them, they rest aw
The discovery of oil in Gaspé excited
considerable interest. Messrs. Kendall considerable interest, Messrs. Kendal Campbell were the first who began
operations, using a horse-power and ordin operations, using a horse-power and or
ay well-digging apparatus. They drile
Shallow wells two or thnee hundred fee ary well-digging apparatus. hey drille
thallow wells two or three hundred feet
decp. The encouraging report of S Wiliam Logan resulted in the formation composed of French and Irish capitahists, ofganized about twenty years ago. Well were drilled five miles apart, till forty were
placed, and roads cleared through the placed. The Canadian Petroleum Com pany also placed six wells.
A wooden derrick was erected; the drill ing was done by means of a machine gine of from twenty to twenty-four horse power. A rope was fastened by a tempe screw to the end of the walking beam,
while the tools were attached to the othe while the tools were attached to the othe
end. When the toofs stuck, as sometime happened, they were loosened by jar fastened to the top. A hole fourtee inches in diameter was drilled, into whic was placed. Below this a hole eight
inches in diameter was drilled, till the surinches in diameter was drilled, till the sur-
face water to the depth of seven or eigh hor oil was done with a six-inch drilling Layers of shale, sandstone and lime were passed in succession. At some places, as
at Mississippi oil-well on the Mississipp Brook, the oil was discovered betwee fifteen hundred and two thousand feet below the surface. In other places it wa necessary to go as deep as three thousand
feet. The deepest well in Gaspé is 3,646 feet deep, and required a year to dig
Other wells yielded from one to twent gallons a day steadily through the yea which would indicate that there must b oil somewhere in Gaspé. In a numbe
the oil gas flowed over the derrick, and was exceedingly dangerous, as on one oc getting out when an explosion took place,
blowing up the belt-house; a fire ensued and the whole thing was burnt up
The usual method was to drill six feet curning the tools with a temper scre
water being poured in to mix the sand Water being poured in to mix the sand,
which, with the mud, was removed by a
pipe called a "Bailer." It was cleaned out every six feet and the tools changed he worn-out tools were repaired by the oi-dresser in readiness for the next
hange. A distance of six inches in twenty wenty-four hours was the usual speed accomplished. Hope was high when as from one well, of which a large percentage One of the wells is thirty miles distant from Gaspé village. All the outfit was
hauled with teams, and the inhabitants still speak of the opportunity for work
afforded and the good wages paid by the Company. Six men were employed in dressers, a cook and a stableman, who also attended the drilling well. The managers were Messrs. Foley and Carpenter.
Fifteen years ago the oil-wells were in full bloem, bears ago the oil-wells were in Work was discontinued, to the great regret
of the inhabitants. During the oil-fever in Gaspé a man
embraced the opportunity to play a practical jeke upon a man who was having a
water-well dug. Securing a bottle of coal
oil, he poured it down the well. Kero-
sene was very much in evidence when
work was resumed. Pressed for his price, the owner was in no hurrys to sell-at least, not under value. Unfortunately, for
visions of future wealth, the output was short-lived.
Gaspé has extensive lumbering industries. Among those engaged in war upon tries. Among those engaged in war upon
the. woods are The York, The Calhoun, and The Gaspé Lumper Companies. Gaspé Basin is also essentially a sea-
port. Many' craft of differing kinds and port. Many' craft of differing kinds and draw up to its wharves. Among the vessels which are regular visitants are:
The Str. "Princess," with Commander The Str. "Princess," with Commander

Browsings Among the Books. SOLITUDE
(By John Burroughs, the veteran Natura list and Author who visite
Emerson says, "Now and then a man must; but coop ui most men and you undo them." Solitude tries a man in a way society does not; it throws him upon
his own resources, and if these resources his own resources, and if these resources
be meagre, if the ground he occupies in be meagre, if the ground he occupies in
and of himself be poor and narrow, he will have a sorry time of it. Hence, wee
readily attribute some extra virtue to


Mt. St. Anne, Perce, Que

Fishery Protection Service; the s.s., "Cas-
capedia," "The Lady of Gaspe,", "The Gaspesian" and the "Canada." These all carry passengers and freight to various
points in the Gulf and Bay Chaleur. The points in the Gulf and "Bay Chaleur. The
officers of both the "Canada" and the "Senlac" showed great kindiness to the homeless, people of Campbellton, the Canda" feeding and conveying twelve points on the Bay de Chaleur. The railway-the Quebec and Oriental -has reached Gaspé, which is at last con nected with the outside world by the iron
road. Her isolation is over, and, if the wharves of the new steamship company to England are built there, what may not
the future hold in store for this rock-bound and hitherto isolated peninsula? He undeveloped mineral wealth, the product of forest and water, the increased advan-
tages and facilities for tourist travel, will tages and faciinties for tourist travel, wil
make it possible for this promotory o Eastern Quebec to yield her resources as
those persons who voluntarily embrace solitude, who live alone in the country or find life sweet. We know they cannot live without converse, without society of
some sort, and we credit them with the some sort, and we credit them with the
power of invoking it from themselves, or
plse of finding more companionhip else of finding more companionship with any case, they give evidence of resources any case, they give evidence of resources
which all do not possess. If not "ex-
quisitely made" hermits. quisitely made," hermits generally have a fine streak in them, which preserves them
in solitude. If a man wants to get away in solitude. If a man wants to get away
from himself, or from a guilty conscience, he does not retreat into the counstry-he flees to the town. If he is empty, the
town will fill him; if he is idle, the town town will fill him; if he is idle, the town
will a muse him; if he vain, here is a feld for his vanity; if he is ambitious, here are
dupes waiting to be played upon; but, if dupes waiting to be played upon, but, if struggle to preserve his integrity. The
rapid growth of cities in our time has its


Perce Village, Que.
well as receive more readily the gifts of the world abroad. ${ }^{\text {and }}$. aspé. With Nature has done much for Gaspe. Wies
no niggardly hand has she bestowed her gifts of scenery-mountain and plain river and head-land, grassy slopes and
wooded ridges-which combine a scene o beauty and grandeur not often surpasse Here dwells a kind and courteous peopie o whose readiness to lend a hand Iam in ained in this paper. That the opening up of this country
may bring prosperity to its people is the may bring prosperity to its people is the
wish of all who have been the recipients
dark side. Every man who has a demon to flee from, a vice to indulge, an itching for notoriety to allay, money to squander,
or a dream of sudden wealth to cherish, or a dream of sudden wealth to cherish,
flees to the city, and, as most persons have one or the other of these things, the city outstrips the country. It is thought that
the more a man is civilized, the more his the more a man is civilized, the more his
tastes are refined-the more he will crave city life, and the more benefit he will get from it. But this may be questioned. It is not, as a rule, a refined taste that takes
men to cities, but a craving for a vain men to cities, but a craving for a vain
superficial elegance, the pride of dress, of equipage, of rashion, of fast living, and
the shams and follies of the world. The
more simple and refined taste loves the seriousness and sobriety of the country. they are empty and frivolous; having only themselves on their hands, they can extract no entertainment from such a subject. How can a man profitably com-
mune with himself if the self is small and frivolous and unworthy? He will not go to
thorss own there.
The finest
The finest spirits are not gregarious they do not love a crowd. Crows and
wolves go in flocks and packs, but the
eagle and the lion are solitary in their eagle an
habits.
Solitu
Solitude is not for the young-the
young have no thoughts or experience young have no thoughts or experience,
but only unsatisfied desires- it is for the middle-aged and the old-for a man when he has ripened and wants thime to mellow
his thoughts. A man who retires into his thoughts. A man who retires into
solitude must have a capital of thought and experience to live upon, or hought soul
will perish of want. This capital must be will perish of want. This capital must be
reinvested in the things about him, or it will not suffice. Either as a farmer or as a student and lover of nature, or as both,
can he live, as it were, on the interest of can he live, as it were, on the interest of
his stored-up wisdom. "There are things that never show recluse in Mexico to an American traveler
who had claimed the hospitality of his hut; "but if you once nake up your nthd
that there is no harm in them. you find out that they are pretty good company" Things do show themselves when one ong. alone; they emerge on all sides; tiliey come in troops from all pointe of the composes,
and one is only master of the situation and one is only master of the situation
when he can make good company of them. When he can make good company of them.
How your misdeeds find you out! the
still small voice of conscience, which you still smaur voice of conscience, which you
could not hear amid the roar of the town, makes itself heard now; all the past be leagures you-whether with an army of
angels or of demons depends upon what your past has been.
The old reclues.
The old recluse, above referred to, the traveler found living in a hut alone in the
mountains. He had lived there miny years, with no companionshipi but his dogs. An Irishman by birth, he had
tried many parts of the worldowidl seen many phases of life, and wad at la tiffound his place in the solitude of the Mexican
mountains. He ,had learned the art of mountains. He had learned the art of
dreaming with his eyes open, which is the charm of solitude. A man who cannot court solitude. Such an old dreamer was ound the other day by some railway surveyors on a mountain in North Carolina.
He had lived there in his hut for fifty years. He , too, had for companion a dog. b
m
w more
would
tion ion of his retreat. A man who has no or nat a dog how can he have a hear vomen seldom itself? For many reason but in my boyhood I knew an aged solitude. but in my boyhood I knew an aged widow
who lived all alone on her little farm, in
her little brown her little brown house, for many years
She kept five or six cows, which she too
care of herself, winter and summer. Sh
hired her hay gathered, her wood cut, anc hired her hay gathered, her wood cut, an
that was all. She was a gentle and piou
little woman, and her house was as nea little woman, and her house was as neat as a pin. But think of the long years of
solitary, jife; the nights, the morntngs, the
meals, the Sundays, the week-days, and no sound but what you made yourself
How intimately acquinted no sound but what you made yourself!
How intimately accuainted with one's
self one must become in such a life! If sef, one must become in such a life If
ones self was not a pretty good fillow,
how cordially one would learn to dislike how cordially one would learn to dislike
his companyl One Sunday, as my people
were passing the house on their way to were passing the house on their way to
church, they saw her washing. Whello,
Aunt Debby! don't you know it is SunAunt Debby! don't you know it is Sun-
day?" Behold the consternation of the old dame. She had lost her reckoning last time I passed that way I saw. only a little grassy mound where Aunt Debby's The used to stand
What a sense of solitude is Wordsworth. woods there is oven all his poetry; what stillness, what lonesome poetry; what sounds of distant waterfalls! How fondly ture, upon rural scenes and events, and how perpetually he returns upon his own heart! His companionship with hills and
trees and rocks and shepherds does not trees and rocks and shepherds does no
relieve, but rather sets off, his loneliness He is encompassed with solitude whereve he goes;

When In November days, A lonely scene more lonesome; amon At noon; and 'mid the calm of summer When by the margin of the trembling Beneath the gloomy hills I fomeward went
In solitude;; and has the same sweet and fruitful fellowship with nature and with his own heart. In his "A Poet's Epitaph" he has rus
"He is retired as noontide dew, And fountain in a noonday grove;
"The outward shows of sky and earth, And impulses of deeper birthew; And impulses of deeper birth
Have come to him in solitude.
"In commoner things that round us lie
Some random truths he can impartThe harvest of a quiet eye That broods and sleeps on his own
heart." heart.
Wordsworth was solitary because of his profound seriousness, and because great
thoughts or deep emotions always create muning with nature own. What is com ourselves? Nature gives back our thoughts and feelings, as we see our faces
reflected in a pool. Wordsworth found himself whenever he walked; all nature
was Wordsworthian. Another was Wordsworthian. Another man of equal profundity and sympathy finds
nature stamped with his Wordsworth
things. He is drawn by every recluse and wanderer; he loves to contemplate beg gars, and dwellers or watchers in secluded dells, and to sing the praises of "The Soli
tary Reaper." A solitary flower, a soli tary Reaper. Al soltary flower, a soli-
tary scene of almost any kind, never failed to move him. What a charm of seclusion in the poem beginning
"I wandered lonely as a cloud
Or in this other
I heard a thousand blended notes While in a grove I sat reclined, thoughts mood where pleasan Bring sad thoughts to the mind."
Or, again, in this immortal song: Beside the springs of Dove, A maid whom there were none to praise
And very few to love:

## "A violet by a mossy stone, Half hidden from the eye Fair as a star when only, one Is shining in the sky.,

Before Wordsworth, solitude had lover and poet in Abraham Cowley a desire to escape from the world, and to be alone with nature and with his own thoughts. And who has better expressed their desire and the satisfaction which its
fulfillment brings? He longed for the country as an exile longs for home. He
says to Evelyn that he the says to Evelyn that he had never had any
other desire so strong and so like to other desire so strong and so like to
covetousness as the one he hagd always had, namess - to be master at last of a
small house and a large garden, with very small house and a large garden, with very
moderate conveniences joined to them, moderate condedicate the remainder of his
and there to
life only to the culture of them and to the life only to the culture of them and to the
study of nature. study of nature
He says:
He says: "As far as my memory can
return back into my past life, before I
knew or was capable of return back into my past life, before I
knew or was capable of guessing what the
world or the glories or business of it were, world or the glories or business of it were,
the natural affections of my soul gave me a secret bent of aversion from them.
When he was a boy at school, he was won to leave his play-fellows and walk alone into the fields. How charmingly he
praises "Obscurity", and how pungently
ho sets forth the "Dangers of an honest man in much company!"
He knew well the wirtues which solitude necessitated and implied.
neither he who is a fop in the world is a fit man to be alone; nor he who has set hi heart much upon the world, though he
have never so much understanding, so that have never so much understanding, so that
solitude can be well fitted and set right
but upon a very few persons. They must
have enough knowledge of the world to
see the vanity of it, and enough virtue to deespise all vanity, if the mind be pos-
sessed with any lust or passion, a man had sessed with any lust or passion, a man ha,
better be in a fair than in a wood alone.'
But a But, after all has been said about na ture, that is the best solitude that comes clothed in a human form-your friend,
your other self, who leaves you alone, yet your other self, who leaves you alone, yet
cheers you; who peoples your house or
your field and wood with tender remem brances; who stands between your yearn ing heart and the great outward void that
you try in vain to warm and fill. who in you try in vain to warm and fill; who in and endows with tangible form all the attractions and subtle relations and mean-
ings that draw you to the woods and ings that draw you to the woods and
fields. What the brooks and the trees
and the birds said so faintly and vaguely and the birds said so faintly and vaguely
he speaks with warmth and directness Indeed, your friend compliments and completes your solitude, and your ex-
peience its charm without its desolation
I cannot, therefore, agree with Marvell peien
I can
that
"Two paradises are in one,
To live in paradise alone."
I should want at least my friend to share 1 should wa
it with me.

FROM "TEXTS FOR WOODCUTS." [Tolstoi: Translated from the Russian by There lived in old time a good master slaves served him, and the slaves used to praise their master. They said: heaven than not a better master under haven clothes us well, and gives us werk ac cording to our strength, but he never insults any of us and never gets angry with
us; he isn't like other masters, who treat their slaves worse than cattle, and never say a kind word to them. Our master, he wishes us well and treats us kindly, and
says pleasant things to us. We couldn't have a better life than ours.'
Thus the slaves praised their master.
And here the Devil began to And here the Devil began to be vexed
because the slaves lived in comfort and love with their master.
And the Devil And the Devil got hold of one of the
slaves of this master named Al'yeb. He got hold of him-commanded him to en And when all the slaves were taking their rest and were praising their master, Al'yeb raised his voice and said: "It is
all nonsense, your praising our master's goodness, Try to humor the Devil, and the Devil will be good. We serve our
master well-we humor him in all things. naster well-we humor him in all things As soon as he thinks of anything, we do it;
we divine his thoughts. How make him be not good to us? Just stop humoring
him, and do bad work for him hil him, and do bad work for him, and he will evil for evil worse than the crossest of
masters."
masters." "he other slaves began to argue
And the with Al'yeb and laid a wager. Al'yeb
undertook to make their kind master angry. He undertook it on the condition that, if he does not make him angry, he
shall give his Sunday clothes; but if he makes him angry, then they agree to give him, each one of them, their Sunday
clothes; and, moreover, they agree to protect him from their master if he should be thim. They, laid the wager, and
free hime Al'yeb promised to make their master angry the next morning.
Al'yeb served his mast cote the had charge of the costly breeding
rams. And here in the . ter came with some guests to good mascote and began to show them his beloved costly rams. The Devil's accomplice winked to his comrades:
"Look! I'll soon get the master angry,"
All the slaves had peeped in at the had gathered. They ence, and the Devil climbed into a tree
and looked down into the dy'or to see how his accomplice will do his work.
The master The master came round the dv'or,
showed his guests his sheep and lambs showed then was going to show his best ram. Dut the other rams,", says he, "are good, priceless; he is dearer to me than my
eyes." The sheep and rams are jumping about
the dv'or to avoid the people and the guests are unable to examine the valuable ram. This rami scarcely comes to a stop
when the devil's accomplice, as though when the devil's accomplice, as though
accidentally, scares the sheep, and again
they get mixed up.

Here the master became tired. He "Al'yeb, my dear, just try to catch the best ram with the wrinkled horns, and
hold him. Be careful." And, as soon as the master said this, ramss, and caught the priceless ram by the wool. He caught him by the wool and
instantly grabbed him with one hand by
the left hind leg, lifted it up, and, right the left hind leg, lifted it up, and, right it cracked like a dry stick. The ram
bleated and fell on his fore-knees. Al' yeb grabbed him by the right leg, but the left
turned inside out and hung down like turned inside out and hung down like a
whip. The guests and all the slaves said
"Alch!" and the" "Akh! and the Devil rejoiced when he The khozyain grew darker than night, word. The guestilland slaves were also
silent silent
would be.
The kho
The khozyain kept silent a while; then he shook himself, as though trying to and turned his eyes heavenward. No long he gazed before the wrinkles on his
brow disappeared; he smiled and fixed his eyow on Al'yeb. He looked at Al'yis
emiled again, and said: "O Al'yeb, Al'yeb smiled again, and said: "O Al'yeb, Al'yeb
Thy master told thee to make me angry Thy master told thee to make me angry,
But my master is stronger than thine, and
thou hast not led me into anger; but thou liast not led me into anger; but wher afraid that 1 master angry. puld Thou
hast wished to be free, Al'yeb. Khee, and hast wished to be free, Al'yeb. Know,
then, that thy punishment will not come from me; but as thou art anxious for thy freedom, here, in the presence of my guests, I give thee thy dismissal. Go
wherever it may please thee, and take thy Sunday clothes. And the kind master went back to the house with the guests. But the Devi gnashed his teeth, fell from the tree, and
sank through the earth.
"Cry out to our people about a passer
by, 'There's a learned man!' and about another, 'There's a good man!' They will be all agog after the learned man and will not look at the good man. We are Greek or Latin?' but whether he has be come wiser or better should be the first uestion. -Montaigne.
physical, moral and wisely training the that the complete man can be found." "Learning without thought is labor lost; thought without labor is perilous."
"It is only by labor that thought can be made healthy, and only by thought
that labor can be made happy; and the two cannot be separated with impunity."
-RUSKIN "For this is your duty: to act well the part that is given to you."-Epictetus, what lies clearly at hand."-CARLyLE.

A Great British Diplomat.
To be designated the ablest diplomat
of Europe by as discerning a journalist as Sydney Brooks, London correspondent that publicists unite in according to Sir
Edward Grey, Foreign Seret Aswaith Grey, Foreign Secretary in the
Aovernment. At the present time he is unquestionably the present ing figure in European diplomacy, and to
him, more than perhaps to him, more than perhaps to any other,
belongs the profoundly important ment of evolving peace from the seething and titanic turmoil of south-eastern
Europe. Great Europe. Great Britain occupy - eastern a de-
tached position in relation to the other tached position in relation to the other
powers, Sir Edward proved himself possessed of such essential qualities of firmness, sagacity, breadth of mind, absolute
honesty and transparency of that, through the frast trying character
ordeals of the 20th cematic ordeals of the 20th century, he has
emerged with fame and authority un-
assailably established while ago he was to one onty a little Known quantity. Compared with many lalks, but always with a a candor, knowledge, and wisdom that command atten-
tion and respect. Beginning with Franco-German. Reud over Morocco, fol-
lowed by the Anglo-Russian trowble Persia, he has now uninterruptedly 1 in
ed the vast and complicated Great Britain for omplicated affairs of of seven years,
charged with many critical situen

The triple entente which unites Britain, France and Russia, is largely his work, ent radical and a convinced supporter oman's suffrage. He is a Northumber land man, a lover of out-door life, and devoted to active sport, like that of $\begin{array}{lll}\text { tennis. } & \text { As an } \mathbb{M} \text {. P., } & \text { he has rep- } \\ \text { resented } \\ \text { Berwick-on-Tweed }\end{array}$ was Under Secretary for Foreign Affairs 1892-95, and Secretary of State for For eign Affairs since 1905, Ho was edu-
cated at Winchester, and Baliol College, xord.


Sir Edward Grey.

## Hope's Quiet Hour.

Our Duty as Neighbors. condemn not, and ye shall not be cone emned: forgive, and ye shall be fororgiven: Give, and it shall be given shaken together, and running over, shall men give into your bosom. For with he same measure that ye mete withal thall be meas
uke vi.: 37,38 .

It is very easy to preach about "our duty as neighbors," but not so easy to
live out one's own sermons. We are so very apt to act as sermons. We are so do heap. providing young-climb on a little heap, pro
and say :

I am the king of the castle,
And you're the dirty rascal
The children did it in play, but we are things about eat. When we say unkind finding fault with the way he does his ing, of course, we hangs out her washgranted tharse, we are taking it for When we pull the character is superior. bor to pieces, in common but dangerous "I am he are-in effect-saying proudly: remember our own fauls, Let us try to haps we shall not be so auick then peritiside by sidame our fellows. We stand Compared are all much alike in our sinfulness. One may get cross and another may be inner" and mather be scorned as a "sinlike the elder brother in the parable, and One of our from the Father's heart then, is to be humbly conscious of our love our neighbors as ourselves. We go on loving ourselves, in spite of the sins which make us more or less unlovable.
It is so easy to make excuses selves. Adam began that in Paradise,
but he forgot to make Eve. He did not say that she had

## THE FARMER'S ADVOCATE.

tempted him to eat of the forbidden Truit becauso sho liked its. taste and
wanted him to enjoy it also. We must wanted him to enjoy it also. We must
Hove people in spite of their saults. One of the commonest sins which we ordinary Christians commit, is, the sin
of sitting in judgment on tho, the of sitting in judgment on thooe who are
not accountable to us for theic actions. not accountable to us for their actions.
"Who art thou that
Jutgest another man's servant? to his own master he standeth or falleth," says St. Paul. It is not an ease thing to control these unruly tongues of ours. St. James says,
that if a man nover oftends in ". word", he is "e perfoct man," end able to control his whole body. Our Lord says
that by our words we shall bo justified that by our w
Our neighbors fudge the Our souls largely by our everryday conversation. If we are bitter in our criticiems and unfait in our sweeping conTo are not only sowing seedes of evil Win the neighborhood, but we are driving people away trom the Master we protess to serve. of course, the tongue can II an do dightor looks at ant the tongue of patient and finds it is soul, he does not harry to wash the tongue, but fights the disease deeper down. If we find our symptom that our hearts need cleansing. Plant real love in a heart, and it will show itself in loving, words as well as in
kind deeds :
"Out of the abundance of of kind deeart the mouth speaketh." Scientists have declaried th Scientists have deciared that every
word we. speak is a vibration of the ether which goes on through space inanititely. They say that words spoken
thousands of years ago are still vibrat-ing-perhaps they might even now be caught up by "wireless". in sone distant
planet. Whe can tesl when the results planet. Whoo can tell when the results of words, written or spoken, shall cease $\underset{\text { A man in Australia left a page of }}{\text { printed sermon in a }}$ printed sermon in a ionely hut. A care-
less wanderer, who had dritted far from less wanderer, who had dritted far from
Goo, picked up the crumpled leaf God, picked up the crumpled leaf and
read it. Back on his memory rushed read it. Back on his memory red mother,
the forgotten teachings oot his mother and he arose eachings ont his mother
Fant heme to his Father in heaven.
Never be discouraged about good see you have tried to sow in your neighboryou have there to sow in your neighbor-
hood. tor many years, but the life in the seed
is not dead, simply waiting is not dead, simply waiting.
" "our duty to our neighborsl"-and who are our neighbors ? $\underset{A}{\text { law lawer once }}$ asked that question, and the world be came the richer by the inspiring parable of "The Good Samaritan." In the city
we can, to a great extent, chose weichn, $\begin{aligned} & \text { a } \\ & \text { neighbors. The people nextent, choose our } \\ & \text { door may }\end{aligned}$ be almost total strangers and we may
be quite at home in the be quite at home in the house across the street. But in the country we can-
not choose our neighbors any more than we can choose our brothers and sisters. God gives us our neighbors. Then He must have had some special reason for
so doing. Are we carrying out His plan so doing, Are we carrying out His plan
and fulfiling the purpose He had in mind and fulfiling the purpose He had in min
when He placed us near each other ?
" The trouble, I think, with us all ${ }_{\text {If }}$ Is each man thought monceit He was mant to the spot
To make it $a$ bit more To make it a bit more sweet.
How soon could we gledden the How soon could we giadden the world
How easily right all wrong If nobody shirked, And each one worked
To help his fellow along,

If a man lives in a place for a lons time, and the place is no better for his presence there, he is a dead failure.
don't don't care whether he has piled up mil
lions or not. His life is a dead failure it his neighbors are not in the least helped ob him. We are all called-as
the apostles were - to be witnesses of the apostles were - to be witnesses
Christ's Resurrection. We call ourselve Christ's Resurrection. ' We call ourselve
Christians, and all who know us should be able to take knowledge of us that JESUS is Living and is our Friend They should see some reflection of Hi
beauty hearts and the kindnesses of or words
and acts. Speak often to Christ arout and acts. Speak often to Christ about
your neighbors, ask Him the best way your neighbors, ask Him the best way
of helping them, and $H$ He will keep you from blundering in your attempts at do
for ing great things,
great
ghilanthropist, is said that one
world-wide fame great philanthropist, of ororld-wide fame.
began by teaching two little street-chil-
 teunhing them and trying to satiofst every
reasonabie want of their pod. letic, intellectual of their natures-"ath-" One very important duty to one He gave his money freely but wisely-it neighbor is honesty. No, it is not lilikewas an outside matter that he was ablo and steal his money; but do ho his house meet the expenses of the $\$ 5,000$ a year to roturn the things you borrow from him, tion he had founded. Far grander tha- promptly, and in good condition? What his money - wealth was his character- the caubee so many business failures? It it io
weasmens and the Polytechnic of the 15,000 members of tomers who do not pay their debts.
 or spirit. That is only one out of the innumer- have sent them over most over wastodi, and able instances that might be cited of the kingliness of men-of some men. Others
are content to sit down comtort. are content to sit down comfortably in
the mistaken conviction that the can get along very well without them. Why did God make them at all, il the world would have got along as well with-
out them ? Each one of us has own special mission in life which no has else can so perfectly fulfil. If If we are not helping our fellows we. are harming wom. It is impossible to live in the
worlthout doing good or harm to someone. Even if one is a harme tonely in the universe, and his example can inspire
valid, his praizere valid, his prayers can reach out and help
hls neighbors. The prophet
The prophet Elisha healed the great General, Naaman, of a terrible disease
but it was the kindly interest of a lit
co, wato thy garden as fair oo the canst ;
Thou workest never alone Will soe it whose plot is next to thine dORA FARNCOMb
DOnd his own."

## The Ingle Nook.

Ravee for correpandence tit tho and other Do


'Snags" and Other Things Now I am juat as sure as though I
heard it, that some of thoes who have heard it, that nome of those who have been reading this sories of artioles have
been sanying: been saying: "That's all very woll for
paper talke there are snags that these journalists know nothing about.") "these "It isn't. almays so eoasy-". . . . T\%' easy enough to talk,",-and a host of such
comments "Snagge""-ot course there will be sniags. Who soid there wroud hot we bo "It. tsn't always so easy," O ot course it ient alwayo so easy.
But will you answe thing worth while ever been accompliahed easily, without work and thought,--ges


Among the " Marguerites,"

We canuous work and strenuous thought ? In dealing with childrem any more than with anything else. We must more than to
oncounter unexpected tendencies in the ncounter unexpected tendencies in them,
in sorts of complications and perplexing ciks and superfluitiog, but we can et least try to make way with the snags,
thy to get over the obstales. The try to get over the obstacles. The
ant may require patience and ingenuity
and "brains," but the goal is surely vorth
t's easy enough to tollk, butk,"- O coursed so: Was anything worth while over accession of educators who have both thought and talked-Comenius, and Lotke,
and Basedow, and Pestalozzi, and roobel, and Spencer, and all the
rest right down to Madame Montessori, Thote shoutd we be ? Is not someone",
talk often necessary to start ".our", thought along lines which, perhaps, we would not think out of ourselves? And
if we don't think, are we very likely So don't be afraid to start right in toaching on best. Try a little deanite
the ach account and see how it goes
As many have found out, the normal hild may heve introduced to him, and owers in the least, eisy words built into little stories, and the beginning of number-work. The primer authorized for Ontario at present seems entirily too an mother who is endowed with the vent word-lessins that wilh answer the purpose, passing on to the primer, and
then to the nilustrated children's books
thet mey be found in any good booktore. Number-work presents even fewer diffbe taught with pebbles, with apples, with towers, chairs, cows, anything in sight,
-and in such a way that the child will im it it interest begins to flag, let the lesson
drop for the time. drop for the time.
on that word "interest," with all that it stands for. "interest," with all that appearance of a solemn duty and irksome lask to be got through with. Try to t least. Whet the child's appetite for knowing more. Once you have filled
him with that ambition more than hall the battle hae boen wou.
Interest the child in gardening. I im heve, as aoon as posisible, a intle plot of his own, even if it be but a lew
feet square, and stimulate his ambition o have flowers or vegetables. Interest sect life. To do this you may have to tudy some yourself, but you will enjoy
hat is you are provided with books, that if you are provided with books,
that are well illustrated and not too
celentific, to holp you in identifying ectentific, to help you in identifying
apecies. "But I have not time to do all this leave all that to the teacher. Willie can learn to read after he starts to
school, and then he can find out things That is true, but the fact remains that the ghild who starts to school able to
read easy lessons intelligently and expressively, able to do easy number-work,
equipped with anxiety to learn for learning's sake, and interested in Nature as she presents herself in the fields, trees,
and bushes surrounding the school, has received a tremendous start over the
child who has received no such stimulation. Not.only is he ahead in actual knowledge and power to do, he is al-
ready in harmony with the work of the school. No time is lost in adjustment
to new and therefore disconcerting conahead at once. too, he is able to tack mark of home,
sons incidentally, five minutes now, ten minutes again, and half an hour some
other time. with plenty of play-time be
tween. He has not. to sit long on a tween. He has not to sit long on a
bench. He can be taking his lesson as
he walks, or works in his little garden, or sits astride of the window-sill, chat-
tering between the sentences to his
mother or big sister, and so quite saved from the ennui of, school. It is quite
impossible for any rural school-teachar with from four to eight graol- teacher,
mit this happy liberty. She must have nit this happy liberty. She must pave
order, and each class must wait its turn.
Indeed, it has been often enough shown that children, if taught wisely at home, until seven or eight years of age, than
those sent at five. School time must come, however, and ook forward to it happily; but the luence of the right kind of home doos oot end, nor is it safe even now to shitt
the whole responsibility ofl on to the
隹 right kind. If she is, the assistance of
the parents will only the pa The mother (of course, father, too, elder brother (or course, father, too, or is interested) can do much toward keeping the child interested in school-work. a. possible "Koeping-in" later, She can
continue to shape the child's ideals. She can keep an eye to the books that $h$ reads, seeing to it that none that a
undesirable fall into his hands. She ca eneourage him to think independently, and do something towards helping him to learn to concentrate his mind on whatever thertant rungs :on the ladder of education and itness.
But how wisely, how wisely she must
ranage all this ! Willie must not be kopt too long and too steadily at his books lest he fail too physical developmoant and loarn to look upon study as
drudgery instead of the ploasure and in-
spiration that it should be. He must spiration that it should be. He must
not bermitted to become a small snob,
proud of his intellectual attainments; proud of his intellectual a stainments;
rather must he. be kept humble by rather must he be kept humble by hav-
ing congtantly held belore him a vision ing constantly held belore him a vision
of the great unexplored countries which lie before him. He must be given the outlook of the great Demosthenes (was
it ?). who represented himself as standit ?). who represented himself as stand-
ing on a great pebbly shore picking up just a few pebbles from the endless shore of knowledge. Nor must he ever be be
spoon-fed. Give him just enough telling and teaching to stimulate and direct himeolf and develop mental backbone. Teach him to value power to think and do for himself more than being able to
recite a multitude of lacts. Bear ever in mind that, as has been said, "Much so-colled educition has value onfy as information." Pay attention to the
leoner object, but keep it subservient to to breiter. Do not let learning become be as someone has said, "not spectucles,

Above all things, do not attempt Whet the child's ambition by urging him
"to try to get ahead of so-and-so," 'to try and beat them all.'
A very olever young A very olever young college man of
this city said the other day, "It is only this city said the other day, "It is only
a cad who works hard just for the sake
of being at the top," and surely he spoke whll.
Urging any child to work to get ahead of someone else can only do him incal-
culable harm as a human. It can only succeed in making him selfish, jealous,
disagreeable, conceited, and mean-spirited. disagreeable, conceited, and mean-spirited.
Surely a petty class triumph cannot pay for all that, and yet such urging is far
from being unconmon. We have even of whipping his children every time they did not come out first in class !
Teach the child to study beo wants to "know." If he comes out
first, let him see that you are ple first, let him see that you are pleased,
but do not make a hallilujah choru over it, and try to make the young win-
ner generous towards those whom he has
defeated defeated. Put his manliness first; his Another false ideal that must be
guarded against is that hard study must guarded against is that hard study must
be accomplished now in order that some
easy and lucrative position may be attained afterwards. "I hope to win
scholarship," wrote a boy in England, and then go on to a university to be-
come a professor, and then, ever after-
wards, I shall lend an Indeed, it
preseed upon boye ond girle that humans
are in this world to work; that one who is worth while work; that every "cads" and cowards seek to get out of day, is infinitely preterable to an allfor selifh phasure, degenerate; that
whatever one does one should try to do well; that "a modest thing done well is
much better than a "high one done
bedly"; that each human in this world should seelk to choome as his
that which he can do best.

ANOTHER LETTER FOR 'PANSY Dear Junia and Chatterers,-Just a
brief call to speak to Pansy, who is resident in my native county.
Somehow, your conditions since your
marriage, Pansy, are so similar to mine that I cannot resist sending a messiage of good, cheer. I am wondering just where you reside, for I am so well ac-
quainted with Northumberland County But fate has destined my home to be in
Western Ontario, and my husband alo Western Ontario, and my husband also
lives on the farm on which he was born His relatives all live in in close proximity
but, oh, Pansy, I am so much "at home His, oh, Pansy, I am so much "at home.
Hiso, ands seem so near and dear to me also, and the farm is rea'ly the best
place in the world. Your work is somewhat different, for, although I also have me, and now she is a busy tot of four, but Junia, she does not always wear
white dresses and sit in the parlor. One day recently I missed her, and, on disneck speed down through the orchard
a-hold of a pig by the tail. What would you do in a case of that kind? Well,
I simply stood and watched the race. But, Pansy, if you are not strong you
should make it a point to have some outside work, -that is really the best part of housekeeping in summer. My
ducks, turkeys and ck ickens, aresuch a delight to me, and I have a goodly number of each,-and Junia can certify that
weigh less than one hundred pounds. By the way, Chatterers, didn't Grey-
bird "hit us hard"-us ex-school-teachera! She stated some facts, nevertheless. happen to be one of those teachers, who liked the farmer's son's fine horse and
buggy. But, Greybird, Im buggy. But, Greybird, I happened to
like the farmer's son, too, -and listen I like him yet, and the farm, too. But knowledge have a remarkable fund
Acquire re housekepping And, Greybird, we don't knowekeping, it all yet.
Do you know. I was positively are a broody hen ! was positively afraid
ight in handling now, don't I de But this
spite my pressure for time. Pansy, please try some chickens and turkeys next year, Hoping to hear from some of our ol
chatterers who have been conspicur chatterers who have been conspicuous by
their absence from the Ingle Nook of late, I shall say adieu. I think you did the very best thing Forget-me-not, just to stand and laugh,
and let the wee tot finish her race Don't you think a mother who knows
how to laugh is worth everything to We are so glad to hear from you again, Forget - me - not.-Yes, 'I remember you
quite well, you little, plucky, fair woman.

REMOVING PAINT, ETC. of yor Junia,-As I have been a reader
of your valuable paper for over four years, would you kinely publish in next
issue how to take yellow paint white-linen dress? Also a recipe for cornstarch salad ? Thanking you in ad-
vance, I am,
Renfrew Co, Ont
N. M. K. K. To remove the paint, first cover the
spot with olive oil or butter, leave for a while, then apply chloroform.
I have never heard before of cornstarch salad. Perhaps some reader con send a
recipe for "N. M. K.. questions could not the reply to your
issue," as requested. the little paragraph at the head of the
Ingle Nook Department?

RHUBARB WINE-OUFRY PD TAUQUA SCHOOL.
Doar Junia,-I am coming to you how to make rhubarb wine, either from the raw or cooked rhubarb, or both, if
it is not asking too much? Won't the ones who asked dress of the Chautauqua Sochool of
Nursing, tell us what they think of th Nursing, tell us what they think of th
course, and if they consider it is wort
taking I, too, would like to become alking ? f, too, would like to become enough to take the hospital course, and have thought seriously of taking up that
one, but would like to have the opinion mking wou has taken it first. ou overy success, I remain a true friend Muskoka, Ont.
Rhubarb Wine

Muskoka; Ont.
Rhubarb Wine
Rhubarb Wine.-Cut in bits and crush rind of a lemon, Add the thin, yellow of water; cover and let stand 2 days. Strain oft the liquid and add 4 lbs
Put this into a small cask with the bung.hole covered with muslin, and let it work two or three days, then put in the bung and let stand four months,

## renovating dress

Dear Junia,-I wonder if you can help me out with some information, as you heavy, brown-cloth dress which has be come slightly laded in places. Would or can you suggest something better be used ammonia, what strength should
thanking you in anticipaDurham Co., Ont. I regret that I cannot-suggest any brown dress other than dyeing. with modern dyes is not, however, a very be dyed was well :shrunken beform it to made up. Different strengths of am monia water are used for sponging. It
is best to experiment with is best to experiment with a little bit of
the goods.

## canning green peas

Please let me know, through your paper, what process peas are put through Could they be preserved as well in If they can be preserved by bottling how should it be done? Any more in Yormation will be thankfully received. All vegetables are harder to s. fruits, the difficulty being due to certai spores which are not killed by one ordinary boiling.
The process
The process for canning all vegetables Thoroughly sterilize the sealers (tin cans cannot be used satisfactorily in an water and boiling for fing them in cold after boiling-point is reached. minutes ops and tin rims should also be boiled the same length of time. New rubbe ings of the best quality should be used,
and these should be dipped in boiling water before affixing to the jars. boiling Use only young, fresh vegetables-peas,
or instance, should be quite tender. If ifter impossible to can them at once or in a cold, damp place, until you are When the jars have been sterilized, fll hem at once, while warm, with the or whatever it may be-fill up with warn boiler. Pour into the boiler rack in the -some say up to the neck of the jars, jars and put the glass tops qn loosely then put the cover on the boiler. Boi screw tops on, letting jars stand in the On the second day. take off the tin rim ore. The third day boil again as bedown for the last time, and, when cool pitin a cool, dark, dry place. when cool,
with a spring or clamp top hetter and more easily handled than mach nith screw tops. The process for car
ning with them is, of course, the same

TULY 3, 1918
her being to raise the spring each time if you choose you may add a ing. Some simply wash the jars thoroughly,
put in the vegetable, fill jars up with put in the vegetable, fill jars up with
cold water and put cold water in the boiler, then proceed as before, depending
on the triple-boiling to do all the steriling
Seasonable Recipes
$\begin{aligned} & \text { Strawberry } \\ & \text { Shortcake-Sit together } \\ & \text { cups flour, } 2\end{aligned}$
$\begin{aligned} & \text { four times, then rub in a cup butter. } \\ & \text { tasty, make to a dough with, fop } \\ & \text { sweet milk. Bake in three layers in a }\end{aligned}$
$\begin{aligned} & \text { sweet milk. Bake in three layers in a } \\ & \text { quick oven. When done, butter each } \\ & \text { well; spread with mashed berries and }\end{aligned}$
$\begin{aligned} & \text { sugar, and pile layer upon layer. Pu } \\ & \text { whole berries on top. Serve with cream }\end{aligned}$
$\begin{aligned} & \text { Cherry Tart.-Line a pie-tin with pas- } \\ & \text { try. Fill with a mixture of } 1 \text { cup }\end{aligned}$
stoned cherries, 1 cup sugar, 1 table
$\begin{aligned} & \text { anon flour, and } 1 \text { egg beaten very light. } \\ & \text { Make a latitice-work of pastry over the }\end{aligned}$
top, and bake.
$\begin{aligned} & \text { Banana Pudding.-Put } 1 \text { pint mills over } \\ & \text { the fire in a ddouble-boiler. } \begin{array}{c}\text { Beat } 2 \text { eggs }\end{array}\end{aligned}$
$\begin{aligned} & \text { the fire in \& ddoublo-boiler. Beat } 2 \text { eggs } \\ & \text { with if cup sugar into which has been }\end{aligned}$
mixed 1 teaspoon cornstarch. Stir the
cook When done, remove from the fire
$\begin{aligned} & \text { and add Juice of half, a lemon. Line a } \\ & \text { dish with slices of stale cake, put a a }\end{aligned}$
and so on, until the dish is full, pouring
a little of the custard over each layer.
pour the remainder of the custard on
ice. Serve with whipped cream.
$\begin{aligned} & \text { The two following paragraphs have } \\ & \text { been taken from University Farm Press }\end{aligned}$
$\begin{aligned} & \text { News, a publication connected with the } \\ & \text { University Extension movement, Agricul }\end{aligned}$ tural Department, of the University of Minnesota:
Canned
Canned Strawberries.-A dark - colored
firm variety of strawberry is firm Variety of strawberry is most dost
able for canning. Fill sterilized jars: full as possible without crushing, with firm, clean berries. Then fill the jars
with a syrup made by using sugar and with a syrup made by using sugar an
water in the proportion of one cup sugar to one and one-half cups of water
Set the jars, with the covers-laid on loosely, in a steamer, or on a. rack in kettle of water and cook until the con-
tents of the jar are scalding hot. Seal and set away for future use. The fill e jars may be set on a rack in a dripping-
pan containing a little water, and set in pan containing a lo title water, and set in is well to have extra syrup to use in
filling the jars if they see not quite full hater cooking.
Two teaspoonfuls of pineapple juice added to a quart can of strawberries in
proves the flavor. The same amount lemon juice improves the flavor for some.
A very delicious strawberry sauce is made by sprinkling the washed and hulled a cup of sugar to one quart of prepared strawberries. Allow them to stand over and bake until boiling hot, put into sterilized jars, and seal. Do not allow the fruit to cook to pieces, but simply become boiling hot.
Canning Greens
Canning Greens.- Why not can a lew
jars of beet greens or spinach for winter
 and plenty of tops are usually available at thinning-time.
Select them when young, and it small better. Wash the greens thoroughly free from foreign matter, rinse in several
waters, and cook in a small amount of waters, and cook in a small amount
water, or steam them. When cooked enough, usually from twenty to thirty
minutes, put into sterilized jars, press down until the liquid covers the top, and seal, and set away
desired.
Spinach may be canned in the same Spinach may be canned in the same
manner. If the greens are steamed
there will be small amount of liquid $\begin{array}{lll}\text { there will be a small amount of liquid } \\ \text { present. } & \text { Scalding vinegar may be } \\ \text { poured on after putting the greens in }\end{array}$ poured on after putting the greens in
the jars. Try at least one can of greens this
year. They are cheap, easily canned, and furnish a pleasing and wholesome
variety.-Mary L. Bull, Extension Dovariety. -Mary L.
mes tic
Science $\quad \begin{gathered}\text { Bull, } \\ \text { Specialist, } \\ \text { Extension Do- }\end{gathered}$


 bleach for tan and freckles. TWo simple bleaches apo buttermilk and
sweet cream.
Use several times a day y Allowing to dry on the skim. Alter

 tire of benzoin ins been added, 12 drop int.
removing a stain.
When I wish to remove a stain from washing, I always stretch the portion


 consing. SETting color.
Spirits of turpentine, properly wised.





## Fashion Dept.

## HOW TO ORDER PATTERNS

 When ordering, please use this form Send the following pattern to :-
## Post Office

Number of patter a....................
Age (if child's or misses' pattern)
Yeasurement-Waist, Bust
Date of issue in 'which pattern appeared.
Address : Pattern Dept., "The Farmer's
Advocate and Home Magazine," London,


7676 Dress Skirt Y


7764 Fancy Blows
34 to 40 bust.




The Children of the Forest By Blanche M. Boyd. [The following chapters are the first
instalment of the record of a young teacher's experience in Northern Ondario. Every word is true; nothing except the names of the characters who figure in the story. In the simple.
directness of narrative, in the charming naivete which appears from time to
time, those who have read "Mario time, those who have read "Mario
Claire" will detect a, strong resemblance
to the style of the French to the style of the French writer,
Marguerite Audoux, who a year or so ago attracted so much attention in
Europe.]

THE JOURNEY
The train was moving slowly northward on its way to North Bay, or
slowly it seamed to me as, not having a. watch with me, the only way ing of
telling the time was by listening or conductor to shout the name of the
coming station. and by examining the coming station. and by examining the
timetable, see at what time the train timetable, see at what time the train
was due at that particular station. We had left Toronto at 5.30 on the Saturday afternoon, and at each station had dropped the passengers until at length,
at midnight, only mid-night, only one other girl re-
manned in the car. opposite to myself at first. but fooling
rather lonely came and sat down beside me. Sleep for us was out of the ques-
ion, so we whiled away the time watching the other passengers.
There was an time, There was an old Dutchman who was
on his way to his home in the West,
then one man sat with his mouth wide
open snoring vigorously, his head open snoring vigorously, his head
thrown back and his feet on the op
posits seat posite seat; others had their heaps
hanging saver the side of the seats in imminent danger of landing on their heads on the floor. Every other pes sanger was sound asleep and snoring,
and as each station came around the conductor would come with his lantern and arouse a passenger who he knew he would kindly come and talk to us.
thus shortening the tedious hours by thus shortening the tedious hours by
giving us considerable information about the country, settlers and life in the

At $3 \mathrm{a} . \mathrm{m}$, my companion left me to
continue my journey alone. The time want slowly on, and when the dawn be gan to break I enquired of the conducelay to our times, what body of wet er
me it was naught but a deningly told me it was naught but a dense log over
the forest which exactly resembled small lake. Indeed that part of tho
country contains a greet many lakes and creeks. About seven o'clook is the evening we had stopped at Allandalo, a small town on Lake Simeon, and when so pretty to look across the waters and side of the lake. At 5.95 a. in. the train moved in to car a rough-lonking man rime up, the quoting if I there the min came up, enintroducing himself ais one of the trusties who hind come to meet medit which. Why filled with logs and chips over which wa had to pass, until two
arrived at the fin where the landlady arrived at the inn where the landlady
gave me \& tiny tote in tho sitter
upon which to rest until brealet
 to my relief, and I slope until 8 overocek,
when breakfast was announced. When verandah upgatairs went out upon the village. Four church splice were valet
bile, which was a sure sign of christianleaving home I was totally Ignorant ion to the state of the olrcumsigneces, and expected there might be Indians among
the scholar, having been told that it was a Hudson Bay trading pout val
All the houses were frame and not. All the houses were frame and not very plentiful, the main street upon whloh
the hotel stood conelating of about a
dozen store and thrice About $10 \mathrm{a} . \mathrm{m}$. we began our till y mile drive in as old muddy our twelvemy companion being considerably the
worse for ligure. Strange as it may worse for liduns: Strange ae it many
seam this did not trouble, me very muck
as the novelty of the scenery interesting. On we Went through forrest and across the bridges formed of rough
loge, across the clearings. along the rough winding road, owing rocks, along the and sand, for that part of the country is very rocky and woody. My comparlon interested me with stories about
hunting, shanty lie, and about the
neighbors with whom was about to hunting,
neighbor
dwell.
"If my son Sam offers you an Indian turnip and asks you to taste it, bo sure boy, and that is one of hiss favorite tricks." This non Sain I sion n levine
was a very wonderful boy in his fathers eyes at least. The Indian turnip is a idea.-Ed.) and even touching it to the lips will cause them to swell to an alarming size.
All along the road as far as the eye
could reach lay the forest, with here could reach lay the forest, with here small clearance around it, but strange to say there were very very few fence to be sean, consequently the cattle
wandered at leisure where they would one or two belonging to each settler. however, having a cow-bell tied around its neck in order that the owner might
be able to find them. find them.
Water the horse, as it was a warm day and we had been travelling several!
miles. miles. My companion also threw i him-
self down on tho ground and freshing drink. It looked so comical but that is the way they all do, and at this same spot in the winter time a pail
is left to draw water for the horses, and
an axe close by to break the ice in
order to procure the water, At 8 p. m. we arrived at our destina tion, the home of a Mr: McDonald, an
other of my trustees. He hower not having received my letter, did no know that I was coming to hie place,
but axpected that I was to go to Mr Smith's where arrangements had been made for me to board. Hearing, how-
evor, from the former teacher to b
aure to go to the McDonald's, they had sure to go to the MoDonald's, they had
expected me to come to them expected to
Ow
owing to come to this pensral belief, Mr. Mc Owing to this pensral helief, Mr. MC.
Donnld, heving occasion to visit Mr.
Smith about six Smith about six occasion to vock that suit Mr
ovening, found the houee full of men evening, found the houee full of men
cursing, swearing, smoking, chewing and
indulging in coarse tallk, waiting for mie induiging in coarse tallk, wailing for mo
to come down stairs, as Mrs. Smith led them to believe that I was resting; and they were furious at 10 o'clock when
they discovered the deception. The formar teacher who boarded fo
three weeks out of the two months of her sojourn there, used to stay at
achool as long as poseible, then go home to toa, and atter that, wander up and dog until dark. and then retire to her room, thers to ery herself to sleep.
She said she had worked in thé slums o Toranto but had never entered a home
so flthy or wratched as this ane mice and othar vermin infested the place. The heat to at that time of
year was great, and the only means of year was great, and the only means of
light or air for the upstairs was a hole in the wail which, during a storm or or
int
cold weather, was covered with a board, cold weather, was covered with a board,
thus throwing the place in total darkthus throwing the place in total dark-
ness. Her general opinion of the family colie) was the best dog among them but oven he told lies for how could he do otherwise whan he was never taught
any better. Part of this informatign I learned from a letter she wrote me, but the worst was found she wro
Doubtless you will be surprised at my
going after receiving so unfavorable soing after receiving so unfavorable a tescription, but, T was quite ignorant of
the true state of affairs, and was very anxious to find out by experience what
a missionary had to put up with.

Chapter 2.
strroundin

 and this was adornod with a tow photozulto artistic
Other the oast end of the house were the

 tiuy vabhat tain -ail theno things homed hata baifin and a milk jug to serve as



 but my photos oni The root, ot coartio,


 sake

 Which whot tung in theat partition on orer


 emall keen blue eves (alll the outlere
 wita on the that far hamp, wiexion, Hias



 or hathirk from her, as her hand was
 very warm heart, and in time of sick
ness hers main always in ness hers was always a ready hand if
Bomewhat rough one. The eldest sor Norman of 15 years, his mother's
favorite, resembled his mother in tem favorite, reserbled his mother in tem-
par, being very ready with his tongue
and quick to act. The other son and quick to act. The other son,
Hearry, of 14 years, was a merry
mischief-loving boy with laughing blue mischief-loving boy with laughing blue
eyes, who was more like his father in disposition, being slow to act but fiarce It toole a good deal to arouse his anger,
but the flame of passion once kindled but the flame of passion once kindled
was not easily quanched. The youngest
child. Annie wes child, Annie, was a girl of 13, and
about her really nothiñ said but that she hathang good can betty face, for
she was indolent, slovenly she was indolent, slovenly and unprin-
cipled. All the children were about the same size, although in $\&$ e short time
Annie had out-stripped the boys: then, is a passing descriptions of the
family with whom I family with whom I had cast my lot for Our home was situated on a hnoll,
and as far as eye could reach nothing but forest was to be seen, except in one
place where the forest fire had swept place where the forest fire had swept
the woodland away with its devouring
flames and this brule, as it is called, is covered with burnt stumps and scrubby little bushes, with here and there a
gaunt old trunk that had withstood the ravages of the fire. A very desolate
place indeed is the brule. The hills
prevented one in prevented one from seeing very far. Be-
tween the house and the road was an old log shanty, where the McDonald's
had lived until some four years before my sojourn there. To the west side of
the house at the foot of the hill ran the water of the "Wissa Wassa" (which
means "here and there") creek and
wound around through the woods About a quarter of a mile east was the
littee frame schol-house, and the same
distance in the other direction this Mr.
Smith lived, just opposite to ours a
family family by the name of Cameron.
Each farmer was given 200 acres of land by the Government, and acres of of
the McDonald family had been there for
15 15 years they had only 30 acres
cleared-the moost of any settler in that
section. so prom the section, so from this you may form
some idea of the amount of bush land.
The "cleared" land was. "ull of stumps,
which made cultival

## Chaptar 8. THE SCHOOL

 The school-house, as bewas a frame one painted a
situated on the McDonald situated on the painted a soft grey, rather on the half acre of property, McDonald hed given for that purpose, and partly from boards from his woods and partly built by him, he having
given fitteen days' work on it, so from this it will be seen that education was
appreciated by some at all events. There were four windows, two to the
east and two facing the east and two facing the west. The
deaks numbered twelve, six on eache iide,
and were, of course, home-made, liko wise the of course, home-made, like-
chairs and two rough deakk two smanches box-stove comprised the furnishings, the benches being for the congregation when
service was held. The number service was held. The number of
scholars on the roll was 24 , and most of tham were very clever, industrious and well-behaved children. The tiny
ones came in the suramer, while the
older nnes came in the winter. gether there were nine classes from the
junior firgt to the entrance class, thi boing the preparatory one for the this col-
legiate institute or high school Never having taught before nor even I had to choose my own methods, and teach to the best of my ability. Each
class was given a timetable scholars soon know what subject followed another, and as the lessons for the
entrance class consisted of English and Canadian history, arithmetic and man-
suration, grammar and rhetoric, composition, literature, physical and geological geography, writing, drawing, agriwere necessarily shorter than those of were necessarily shorter than those of
the other classes. A may be imagined
it took a good deal of thoutht to study out each day's lessons for each
class, especially as the attendance was very irregular. which necessitated con-
stant revis became not only a talking machine (pretty easy for me) but a walking one
too. This, however, did not take place until after Christmas, as the highest My chief obiect was to win the childrens' affections, and thus rule by love and not by fear. To do this I en-
deavored to make school life pleasan-
for them as well as instructive Friday mornings we would have examinthe first classes were delighted to hear a story read or told to them after their work was done, as the school had to be had a hall-hour recess, morning and afternoon, whereas the other
only had hale that time.
In the afternoen In the afternonn we would take up the and, having recess somewhat earlier torm a sewing class, where I tried to sewing as well as mending and darning. As two of the girls wanted to learn to wooden hooks, and with some bits of Sool they quickly learned the art.
Sometimes as a little treat the tiny girls would do some of my cork-work. In of a quilt or, indeed, knitted stockings teaching I would read to them, during which time, however, they were at
libertv to ask my assistance with their
needlework neenlework. The boys also enjoy-
ed this hour. and all would listen most
attentively. The first hook was of adventure, but the girls did not care
much for this, so much for this. so we read "Sketches
From Life" (a story or rather a num-
ber of stories ber of stories on the Ten Command-
ments and verses in the Bible, written
by a friend of mine). 'Mildred's Boys by a friend of mine), "Mildred's Boys
and Girls." and "Eric" (a beautiful
school story), etc., which much interester school story), etc., which much interest-
ed them.
The children were very fond and many were the sory fond of singing they learned.
the favorite of the British Crite on the the boys being "The
forent tastes forent tastes liking such as "The Sea-
Shell's Whisper," "Will and the Bee," but,
sad to 'relate, patriotic songs une were very fond of
of the Queen." . One was "Soldiers punishments inr the school was that
singing should be crossed off the list of
periods for the
patriotic music not being so much ap that the big girls in the highest clac wore English kirls who positively fused to sing Cainadian soings except
upoon rare occeasions, and the small ehildren were.rather shy of singing them very well alone as the youngeit of these girlis used to laugh at and tease the
afterwards and do what I would thi spirit generally prevailed. It was not termed all Canadians "bl-owmin" bl-owly heads." Sad to relate, the people i eot, most underhanded tricks and gav
the teachers most of their trouble wer
the Fonglish the Banglish, and, of course, thei Composition was a most interestin pariod for them too. One day they
would have a long word out of which to make other words, there being great
contests to get the most number contests to get the most number o
words. Another day it would be autobiography, and it was not very long
before they understood the meaning of the word and wrate splendid essays.
Then again they would have a story read to them, and rewrite it in their own words. Sometimes they would tell with a certain sum of moyn would do some peculiar things, the happiest or do in their lives, a description of their life and the country, what they would like were allowed to make up a story about enything they liked, and really wrote vorite amusement fairy stories. One favorite amusement was to discover from mals or at times be given a flower ani piece of wood, etc., and find out by ex-
emining it, the beauty. Of course letterwriting was a regular

The old-time spelling matches ware ing chosent exciting. The captains bemade up one on each side sides were soon the words beini taken from the school, part-second reader and continued into
the second reader, and even the third if any pupil remained stavding. It it was crtainlv a downfall to a senior schollar
of fifteen when her little sister of eight put her down. although the best speller was a little girl of twelve, to whom it Tearn arithmetic.
Geography lessons wers also interest ing, as the scholars would learm a num-
bar of definitions which they would and in the next clases by drawings names of countries. counties, country lowns. cities, etc., and learn to find print on the map or draw maps and When learning these names and how to spell them. each mistake sent the unortunate scholar down foot. but whothe end of the lesson received an extra

With writing and drawing they also Cook particular pains, as they were generally eager to have an " $E$ " on their
slates. These marks work For every lesson particularly well learn part which showed painstaking on the so very good, allways merited a good course carlessness. laziness conduct, but of or talking always forfeited them. At seats were changed, those having eholars ed the greatest number of marks for the the end of the front seat: and at given the scholar a prize was to be obtaining the greatest number of marks;
and a young lady friend in Toronto
very kindly very kindly offered a prize for the best
essay written on any subject the pupil hose. These manuscripts were all sent
to her to be examined. so that You will doubtless notice that
nethods used methods used above could not be for the
first class, nor indeed were they. This
class consister flass consisted ni six children, ranging three classes, they haviag come at diterent times and, of course, must not be
kept back by others. The first of were learning their letters to both read
and write, and as some letters that were chard would have

## EATONS SMM EATONS suncanamí

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If you have not already received a copy of our Semi-Annual Stle Catalngue, please send your name and address so that we can forward you one without further delay., We want one and all who read our announcement to see to it that this book of timely offerings receive their immediate and best attention. It's a book of saving opportunities, listing just such articles as are in season and sure to be appreciated from every viewpoint, particularly in that it has

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Don't fail to note that this Semi-Annual Sale ends 15th August, and as stocks will surely be quicky depleted we advise ordering early. Many lines are certain of a "bargain rush," and consequently, we ask that you do not delay your order until it is too lato

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wo ship all orders Quickly, unless unforeseen alfficultles occur. Gustomers are Immocllately notified of possible delays.

We propay ohcurges on \$10 ordere and over to vour nearnet rallroad statlon
 - wollaer with a gun over his shouller "R". a ntile. old man mith a peck on hie back, and it mae surprising how gutcocky they learnod them. But basides
 try to tanch theom the geousd, and by taking four or avo neep ones a day and oonstang tor long betore they wre able to bo thead or foot of hallee by soanding out some Torder writter on the blactiboene, end roind it very Interesting. Luke all enidren thes likea stories road to them.
 of this oteon Fimo reatingo parto athan booke, and had to laing tin their
 you will woo that all had an coperter tty of Obteannem marke.
The ebilarem baving little or no subo
 Vooling a portion of the $v e$. mad in the
 not then would understand, yurt mak-

 latily the Bowidetion, aill preoercibed, by
 pracher had loet tome hymn books at book and took faech hymin that 1 krowe


 loymad bagreat many hyme mone the

 Studying theee ,ithio by litio they momortzod the sth, sth, 7th and sto chapter Ot St. Joht, 23rat, 24th and 8tath Peomm vert the Ten Conimandanotst. For everred Thio parente. boweverer. took it in haire any routriten what tover ater to One Einghaman intorined met that it ho ho watued his ehilirene to loart the Bithe he wolnt thach them ne home and it
 tulud got to taenh them. The, truatoes thito time fave oratery tor it to be
 in wase cometuonaid the estatement that In the sconool it they wishaul Ateer this they could aey nothing moro
The ase

 at 1ase it beceme ubeerahio, and I was
 or muvelf that was teaching that school,
and. to toll them, 14 they want of the


 while I I would attend toi mine. This
naturaly,
did
not tend
to matters, for. ns may be supposes. it
 tating and domineering words "'waste
their sweetness 'on the desert air." The children had few pleasures and did not know many games, so 1 endeavored they took one of the benches out winter school-house. turned it upside down and hill just in tront of the coist down the the front child hung on to the support at the end, and the other children clung each other. "Necessity was the haste to resume studies at the cainly. In thetr the bell one day they left the bench on he road where it was run over and setsher by the team of one of the
sho was "drawing logs." He all home on top of his three tiumense ogs, which made a load. The firs
bicycle.

TheBeaverCircle
OUR SENIOR BEAVERS. IFor all pupilis from Senior Third to Continuation Classes, inclusive.] Bob-White's Carol. Still I hear them calling, calling When the tullp-trees are breakin In a blooming purple glow ; Throush the pretty Southern Throush the pretty Southern town,
Where the furrowed valley stretche And the rugged mountains frown. Oh, "tis then I hear them calling
From beyond the river shore, From beyond the river sho Bob-whites piping o'er and o'er When the cotton fields are growing, Ahere their blooms begin to show Dowh thie long aisle of the row: There the driver turns at noonday Lhaying down his shining plow, Close against the hill's green bro here I hear them all about me,
Scudding 0 , Scudding o'er ny homeward trail here the valley seems to echo
With the carol of the quail.

On treble note 'tis rising
On the morning's early air
'Noath the dawn-light rosy-fair Catoh the song that they are singing With the coming of the light, Quail that pipe acrose the valley
In a carol :" "Bob,-Bob-white," And the strain must linger with me Though my steps should roam away It must linger on forever
On forever and a day.
tESLIE CLATR MANCHESTER. -In Our Dumbo Animals

Senior Beavers' Letter Boz | Dear Puck and Beavers, -T am |
| :---: |
| to tell $\begin{array}{c}\text { going } \\ \text { you about a woodchuck. } \\ \text { One }\end{array}$ | bright spring mouning Heodchuck. One Scotch bright spring morning Hector, a Scotch

Collie came bounding into the yard with. something in his
looked like a ball of fur

$$
\begin{aligned}
& \text { "I guess he has brought me another } \\
& \text { pet, since I lost my kitty," said five } \\
& \text { year-old "Marjorie, "dive it to me }
\end{aligned}
$$ Drop it, sir!!". Hector carefully gave he the brown woodchuck. The little fellow was too frightened to move, at first, so

Marjorie put him in a basket $\stackrel{r}{\mathrm{Ma}}$ acquainted and would follow hecame well over and appeared uneasy if he was out of her sight, so she gave him the name legs and eat sugar out of her hand hind also liked bread and butter. One day he was nowhere to be found until someone looked in one of the cup-
board drawers. When it was Jack camie out, stood on his hind legs and begged for some sugar.
Sometimes Mariorie would hitch him to the doll carriage. Would hitch him around the table enjoying the sport as well as she, but sometimes he would balk in pure mule-fashion.
When fall came he Only eat once a day got fat, and wout sleepy. Marjorie thought he must be ill. When her father told her he was just getting ready for his winter's sleep,
dried the tears from her eyes One day in September Jack started he got it deep the back yard. When he got it deep enough he carried in
some dried grass and leaves and not come out for three days, and d corme out, sat on his hind legs and begged for sugar. When he was sati
fied he went back in No matter how much Mariorje whie she would just get an answer back that was all.
One day the family saw him comin home across the field trying to co
another woodchuck to follow hin wondered how Jack had managed to gey
one so gaunt and slim like one so gaunt and slim like hiriself, but
he did not get her any farther than the
stone wall. where she stone wall, where she would sit and watch him.
In the spring when Jack came out he


## Pure, Warm Air vs. "Cooked" Air

$\mathbf{S}^{\text {TEAM }}$ and hot water heating systems, with radiators in every room ondmply warm stagnant air over and over again. Such methods are都 people who have regard to health and sanit
whe Kelsey Warm Air Generator provides for an even circulation of pure, warm air throughout the whole of a building by means of the Kelsey


This new feature in a warm ai the Kelsey. It insures good ven lation with thorough heating It safeguards health besides pro-
viding for comfort. viding for comfort.

 grade surface the Kesley warms two
or tharee times as mult airas an
dinary furnace and cir
more nifure

Heating System interested in this Pure Air Heatirig System write for our booklet,
Ventilavements in Modern Heating and
Vent

THE
JAS. SMART MFG. CO.
$\underset{3}{\text { Brockville }} \underset{\text { Ont. }}{\text { LIMited }}$ Winnipeg


Banish Kerosene and Hand Pumping Disarat the dirty, dangerous lampo
 Fove FLECHRUC \& WATER SYSNEM Send at once for full deacripten;
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investment or to or ovide investment or to provide
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DON'T BUY A PIANO until you find out al SHERLOCK - MANNING 20TH CENTURY PIANO
Canada's Biggest Piano Value THE SHERLOCK - MANNING PIANO Co. Ondon, (No st reet address necessary) Ont And drowned the Royal Gems What does this girlish prank denote?
Oh, just that Lily wants to vote.

 in the ores got higeree they when why



 day evoning Ifery Iong stems, Yester-: did not got very many. I got a fower
that I dial not knew the name ot
dor days when my shool mate and I wor
looking tor tow howers at rocess, wo merly

 Trobir's net matily, beside our bate there it three blue oggs in it. IT woutd ilie it it
some of the Beavers would write to me it they do I wevere would write to me; R. R. No. 1. LILIAN SPEERS. Don't gather too many wida fowers,
Lutition. Leave plenty to go to sead.
 the wild in
none at all
ald

Dear Puck and Beavers,-This is my
frst letter to you I I first lettor to you. I live on a farm
of ninety-eight acres. I have five of ninety-eight, acres. I have five
brothers and three sisters. I am twelve
 terery Tay. The church and sehool are
 echool here, and we are gattivg aloog.
 tural gardion at shoolthuts. an aprige, ono to one ot our naerbry neighbbors to juadgo

 teresting, ther takes "The Farreren in

 Ravenswood. (Ane
Ont. n.
 don't like them, Pueck, juast throw it
into the w. into the w-p-.h. allowe on the lawns
What lions are


 or on the shore. he dwelt where man
never dwelt before. Ans.-Jonah in the How far is it from February to
April? Ans.-A march of thirty-one What goes around the house and makes When you can't get fine eloth to make clothes out of. do you know what to
get it of? Ans.-0i course (ooarse).
When is a Scotchman like a donkey? When is a Scotchman like a donkey?
Ans.-Whon he stands on the banks and braes.
I have a little sister, they call her "peep, peep," she wades in the water
deep, deep, deep; she climbs up the mountain high. high, high ; my poor
little sister has only one eye. Ans.-

I guess this will be all the riddles. Puck you are a good old fellow to put
all those nice things in the Advocate for us to read. $\begin{aligned} & \text { CHARLOTTE REBAH POTTER. }\end{aligned}$ Loyal, Ont. (Age 10, Book ILI.)

Honor
Roll :-Lena Cross, Ruby Williams, Clara Neil, Ivan Mac
(Nova Scotia). Jack McWilliam.

## beaver circle notes

Lena Carr (Age 14) Dresden, Ont.,
wishes some of the Beavers would write

Please address all letters intended for this department to "TheoBeaver Circle,"
"Farmer's Advocate and Home Maga-

OUR JUNIOR BEAVERS
(For all pupils from the First Book to

THE hight elves The little elves were idle folk. Till Father Odin scolded them For wasting moments so.
"But we've done nothing wrong o

The earth, litte elven cried
Have you done sol
"ave you done something that was

Decond Puck and Beavers,-This is my second letter to your circle. I was enprint, so when I have nothing to do I I
wial drop you a letter. wirde this you a letter. I will write on and woodpeckers and greybirds. There is a robin's nest up in one of our pear
trees. I think the robin is. a nice singer, don't you, Puck?
On Saturday, as I was walking along the road, I saw a small sake. It
stuck out its red stingers, but I threw a stone at him and he ran away. have five pigenns: two are young ones:
My father and grandfather have taken "The Farmer's Advocate" for many years, I and would not do without it. Beaver Circle much success, I I remain,
your little friend your little friend.
Auburn, Ont. ELDEN H. sToltz. (Age 8, Jr. III.) The "red stinger" of the snake was
just its tongue, Elden. Yes I love robins.
Dear Pucky and Beavers, -I I enjoy read-
ing the lettars very much, ing the lettors very much, my father
has taken "The Farmer's Advocate" for a very short time, and I thought I would like to join. We have a dog sister going to high school. I go to public school. Our teacher's name is
Mr. Shellinglaw. and I like him fine. will close with a riddle.
bee, the prettiest thing I ever did soee Ans.-A watch.
Sealorth, P. O. Ont. EVA STRONG.
(Age 8, Sr. II.)

Dear Puck and Beavers,-My papa enjoy the letters of Advocate" and very much. I have a brother thirteen come so he can watches for the mail to I go to schnol and am in the advocate.
book. book. I have only one-half of a mile
to go to school. My teacher's name is
Miss Hunter, and I like her Miss Hunter, and I like her very much.
For a pet I have a Shetland For a pet I have a Shetland pony
which I call Teddy. I have a cart and harness for him, and I have lots of fur hitching him up and driving him.
like riding on his back too. I wonder if any of the Beavers hid any eggs last Easter. I did and on
Easter morning brought in 126 . Well,
I guess I will not write any more till I guess I will not write any more till
I see whether this escapes the
s.-p. b. Springlord, ont. MILDRED WILCox.
(Age 7.)

Dear Puck and B3avers, -1 thought
would
write
never wrote hefore. So $\frac{\text { Circle. }}{}$ I $\begin{gathered}\text { the } \\ \text { hope }\end{gathered}$ it will escape the w.-p. b. My father
has taken "The Farmer's Advocate" for twelve years. I go to school every
day. day. I have ahout one mile to w'ill. We all like her ine. I am in the second reader. There are twelve children going to our school. I have a pot
colt; his name is Charlie. Wishing the
Circle every Circle every success.
Iona Station.
R. R. No. 8.

Dear Puck and Beavers, -I thought I
would write a letter to the Circle. My would write a letter to the Circle. My
father has taken '"The Farmer's Advo-

Something Entirely New for Housekeepers, Mothers and Daughters SEND FOR SAMPLES


Patemted Canado, Unied States, Greait You will seve much work and worry

$$
\begin{aligned}
& \text { BALDWIN } \\
& \text { House Dress }
\end{aligned}
$$

A new idea that is fast growing in
popularity. hit is a ralt hel Pppularity. It is a real help and con-
venience. Answers every work dress, house dress, yet always looks neat. Slips on and off in a sec-
ond, just like a coat. Merely hin ond, just like a coat. Merely shifting
the belt adjusts the garment to any figure instantly. Snap at the back holds the garment securely in place. Ite vouble-breasted feature gives double ser-
vice, It has a hundred uses in every
home.

"She Always Looks llent!" You can' catct her loking untidyy
because - while about her household duties she alvays wears a

Bilduin llouse Press
Baldwin Garment Co. london charlinc strakt ontario Kindly send me your free samples
Name.
street.

Province

## A "New Idea" D́rive

The Old Style "Nest of Gears" Banished
A driving mechanism consisting of a "nest of gears" is now considered out-of-date. The di-
rect chain drive, as used in the rect chain drive, as used in the
New Idea spreader, is conceded New Idaa spreader, is conceded
to be the simplest, most powerto be the simplest, most power-
ful, most durable "drive" in exfstence. When the

is not spreading, the driving
meechanism stops. No unneess. mecianism stops. No unneces.
sary wear on the machine. The
cheit




 the "New Idea" you"ll find its
very
different
to sery difenent to ordinary Plaining all aibout the two-ev-
linder pulverizing system, the
Tudhope-Anderson Co., Ltd., Orillia, Canada M. MOODY \& SONS CO., Terrebonne, Quebec Selling Agents for Province of Quebec.


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It's the car with the down keep. The Ford's surprisingly low first cost is matched by its low cost of maintenance. And six thousand service stations---where all Ford repairs are to be had at reasonsonable prices---insure its constant and efficient service.

Here's the test: $\mathbf{3 0 0 , 0 0 0}$ Fords now in service. Runabout $\$ 675$; Touring Car $\$ 750$; Town Car 1,000-f.o.b. Walkerville, Ont., with all equip ment. Get catalogue and particulars from Ford Motor Car Company of Canada, Limited.

## WANTED—JERSEYS

I want to buy fifty (50) Jersey Females under seven years. Must BOX B, FARMER'S ADVOCATEE, TORONTO
cate" for three years, and I like reading the Beavers' letters. I go to
school every day, and I am in the first
chen bchool every our teacher's name is Miss
book. Our
Houston, and we all like her very much. Houston, and we all like her very much.
For pets I have two rabbits and a dog; For pets I have two rabbits and a dog;
his name is Captain. He and I go for his name is Captain. He and I go for
the cattle every night in the summer. the cattle every night in the summer
As my letter is getting rather long
will close.
CHESTER MEDILI. will' close. $\quad \begin{gathered}\text { CHESTER MEDILL. } \\ \text { (Age 7, First Book.) }\end{gathered}$

## Mending Basket.

Difficulties Lying in the Path to Woman Suffrage. Possibly the greatest question confront
ing the civilized world to-day is that o equal suffrage for men and women, That
the cause is gaining ground no one can the cause is gaining ground no one can
deny, but the march of progress seems deny, but the march of progress seems
slow when we consider that it is forty-
two years since the women were enfran two years since the women were enfran-
chised in the State of Wyoming. There must be a reason for such slow progress,
great difficulties must lie in the path In this article I shall try to enumerate some of the greatest difficulties which I
can see, and which can see, and which were not mentioned
in the articles appearing in "The Farmin the articles appearing in
er's A Advocate", of May 24.
The militant suffragettes of England
are no doubt working are no doubt working against the cause
when they undertake a work of destruc when they undertake a work of destruc-
tion, hit and miss, about the country. They seem to be a class of people who
have tired of the reign of peace and want "something doing,", but I do not
believe that woman suffrage forms much of the prize for which they are fighting,
No Government can yield to the de No Government can yield to the de-
mands of a movement of organized un-
rest that does deeds of shame which even rest that does deeds of shame which even
the anarchists would not do. These deeds of shame have caused many noble women, as well as men, to become disgusted with the whole movement, and
public opinion counts more to-day than ever before. If a person believes in
woman suffrage, it requires a creat deal of nerve to say so when a public opinion
calls him or her a suffragist, and classes calls him or her a suffragist, and classes
all such with the militant suffragettes all such with the militant suffragettes,
so popular in the courts of England About the only well-known reasons for enfranchising the women are those given
by rattle-brained suffragists. These are by rattle-brained suffragists. These are
well advertised, but the reasons that are wert advertised, but the reasons that are
worth while are never heard by many. A lot of old maids and silly girls have
said that if the women voted they could said that if the women voted they could
command salaries equal to men for equal command salaries equal to men for equal
services, in such positions as teachers, lawyers, etc. Any reasonable person can
see the folly of trying to keep see the folly of trying to keep a nation
going if men who have families to going if men who have families to sup-
port receive ao higher pay than spinport receive ao higher pay than spin-
sters. The reasons which spinsters give are not representative of a nation'whose
women are wives and mothers women are wives and mothers. About
all these people say on marriage would all these people say on marriage would
mean, when boiled down, "Make divorce easier."
nation nation?
by suffragists is, "Taxation without representation is tyranny," but Govern-
ments of to-day explain taxation thus A person who owns a valuable property
pays a high tax, and in pays a high tax, and in compensation
for his tax so paid, all the machinery or his tax so paid, all the machinery
of the law is available for the protection of his valuable property. A person with less valuable property pays a lower tax
because he has less property to be pro-
oncted because he has less property to be pro-
tected. If taxation justifies representa-
tion. minors and foreigners who property have a right to the vote.
Are the women of to-day qualified to vote? Do they, as a rule, know more about government than men know? Have
their lives trained them to understand
most most government projects, such as the
building of canals, bridges, railways, roads, telegraph and telephone lines, the
dredgging of rivers, and the protection of
trade trade and commerce? You pay that
men know little about such things. I admit that you say the truth, but will
doubling the present ignorant vote imMrove matters?
Men have solved many problems, but problem, entirely your attention to one
pervent
servant problem. Why do salled the servant problem. Why do so many kirls
prefer to work under the direction of
men in factories and
living wage, when domestic servic ture, at a wage of enough to girl na A child at school is not given ménsura tion before he has solved the simple problems in addition and subtraction.
What is government ? What is government? When, boile
down, government, of the present da is, to a great extent, brute force. A mother may govern her child by persuasion, but show me the person who has not, at some time during earily
life, felt the brute force of government in the form of a "licking." National government is on the same plan. The
Government is not the party in Government is not the party in poper,
nor the army and navy, but the rank and file of the nation's voters, who mak the laws, and who must also enforce them. The voter must defend the country in time of war, and protect life and needed. He who says, "Thou shalt no heal," must not rest until he has done his best to punish the thier. Is it in oo become a part of such Government? There is no privileged class among Soters; all must stand on equal footing the nation he is given a vote, butt whe the nation has to support him he is no onger allowed to vote, because, by hil nation to earn his daily hrear for the far this rule has worked in regard to the women who vote. For this reaso all Mormons are suffragists. By giving
his
wife, or wives, the Mormon relieves himself of the painful duty of supporting them.
How has woman suffrage worked out where it has been tried? In Colorado,
Utah, Idaho, and Wyoming, women have voted, respectively, for from fifteen to orty-two years. In Utah, women have ot rooted out polygamy. Twelve states vent childrem working in factories, etc at night. Colorado, Wyoming and Utah have no such law. Twenty-eight States provide for factory inspection. Wyoming have juvenile courts which they secured without the votes of women, except in Colorado. Thirty -eight States compe seats for women at work-Idaho does
not. In Colorado, husband and wife are jointly liable for household finance. In no woman-suffrage State can her, while in New husband to support pawn an old suit of clothes withoüt his wie's consent. Truly, the best laws for States where women vot exist in those These are some of the difficulte when nust be overcome. Let us not hold up ut hands in holy horror before them, remembering that manfully and womanly, must come, and that every, for women is needed in putting up a clean, decent amplaign in overcoming the diffculties higher civilization than this world has yet dreamed of.

The Teacher a "Unit by Herself.
Editor "The Mending Basket
With your permission, I would like to Advocate" to reply to Greybind Farmer's iscussion of "The School-teacher." I Convention present at the Women's Institute McCready if he 1 quite agree with Prof. the teacher in the rural schoonent that by herself in the community, and I think Women's duty to the children of the fay and their the teacher as well as does the average cuss the personill have no time to discomings of the teachers unit by herself ! I I rather the teacher a not say thanities at any rate. I would unlettered men,"" but certainly "uncouth,
them are, and the majority and think of little mat how to butity of them know
save Save money; the teacher is bartered and
cut down in ity or experiency regardless of capacsecured her position and when she has
equipped school a poorlyequipped school-no conveniences or mod-
ern improvements-and

JULY 3, 1913

Wess who think that the equipment which was placed in the school when it was
built thirty or forty years ago should
last and be suffieient for ever, last and be sufficient for ever. And
there the teacher is expected to train up the child and educate him, teach him everything good and needful, and unteach
all the evil and bad habits he has learned before he came to school. From whence cometh her aid? Not from the parents generally; not often from the ence, her own tact, and ${ }^{\text {h }}$ her own re sources.
Why does not the teacher take an intorest in Institute work, and thus spread
her knowledge over the community? her knes not do so, there sons. Perhaps some young teachers are too bashful, and do not feel capable of reading papers before a society of
women, many of whom are many years women, many of whom are many years
her senior. Teaching school before a her senior. Teaching school before a
group of little children, and reading a paper of your own composition before a
group of criticizing women, are two group of criticizing women, are two
totally different things, and reading that paper may be just as hard for some
young teacher as teaching forty or fifty young teacher as teaching forty or fifty
children for one day would be to a parmer's wife.
Then, a teacher may feel that, as she cate the Women's Institute, her time belongs to the children, and if she has not
time for both, the Institute may get time for both, the Institute may get
elong without her. But I think the
many cases is that the teacher knows that sne is begrudged a half-holiday, or
even a few hours off duty, and if she even a few hours off duty, and if she
should close school to attend an Instishoud meeting occasionally, she will be up
tute the carpet for robbing the section.
on the on the carpet for robbing the section.
Many teachers are not brave enough to Many teachers are not brave enough to
face that situation. We know one face that situation. We know one teacher who prepared a paper for an In-
stitute meeting, walked three and a half miles on a hot June day to read it, and
then was censured as we have just stattaking an interest in Institute work, and, although she seldom attends a meeting, she is a member of the Programme Comto read. We believe that every teacher would take an interest in the work were it not for the fear of criticism for neg-
lecting school duties. How can you exlecting school duties. How can you ex-
pect a person to become and remain interested in something from which she has so seldom an opportunity to obtain any enjoyment or benefit?
After all, why should the teacher be
interested in the Institute when the stitute takes so little interest in the school? The school is isterectically the teacher's domicile, and the place where the children spend at least six hours of the day. How many parents are ever fare or the teacher's work to visit the
school and see how the school is managed, or commend the teacher and pupils
in their work? I have taught in rural schools in Ontario for fourteen years,
and in that time have not once had a and in that time have not once had a
visit from a mother unless we made an "At Home" or something of that kind is fair, and if you expect the teacher to take an interest in you and the Insti-
tute, take a slight interest yourself in tute, take a slight interest yourself in
the teacher and the school, not in a the teacher and the school, not in a
criticising spirit, but in a spirit of en-
couragement and helpeulness - Auragement and helpfulness. Never, but often better than those about
her. A teacher may learn many things from a farmer's wife, just as a farmer's wite may learn many things from-the teacher. There are teachers and teach-
ers. Yes, and there are farm. wives and ers. Yes, and there are farm. wives and
farm, wives, and, thank Heaven, they are not all so narrow - minded as Greybird appears to be. "Book learning is not
all of education, nor is a knowledge of kow to cook, stew, and bake, but a
knowledge of how to look at a subject from all view-points is also a part of education, and a part which we think
was sadly neglected in Greybird's educathere is just a little trace of jealousy in her sarcastic criticism of some poor
teacher who has been unfortunate enough teacher who has been unfortunate enough
to fail to appreciate Greybird's knowl-
edge of would not pick out one example of a helpless teacher and hold her up as a
sample of the rural-school teacher. There
are teachere

 they are not common. I am a teacher,
and a farmer's daughter, and I am
proud proud to say that I can and have done
all kinds of house - work, all kinds of house - work, garden - work,
and field-work, know a little about music and fancy-work, and when I go home for my vacation, I can take my place there With the workers and spare someone else,
and I belleve there are many, many such
teachers and
teachers. But we love our schools, and they come first with us. I Io not think it would be any great crime for a teacher
who had been raised in the city who had been raised in the city and had
never seen a daisy grow, to be unable
to recognize a daisy when she to recognize a daisy when she saw one
for the first ; itime. I would not call that
igno ignorance. There are many things that Greybird or any other farmer's wife would not have a single idea about.
Yes, Greybird, there are boarding-houses and boarding-houses, and we know a good
deal about them, and we are thankful do not board in Greybird's home if we expects us, after teaching school all day, overseeing, directing and managing forty
or fifty children ranging fron five to six or fifty children ranging fron five to six,
teen years, who, to use their mother' teen years, who, to use their mother'
words, are nuisances or annoyances at home, and must be sent to school to be kept out of the way if for nothing else,
to do for her all the "ssummer sisl, did. Tom Sawyer discovered a great principle-that play consisted of what we are not obliged to do, while work consisted of what we are obliged
to do, and this was the prin ciple on which the "summer girl"" worked. We often "find that when we are willing to act "the daughter part" to
our landlady, she is ready to become our landlady, she is ready to become a
tyrant and make of us slaves and "apron-string" girls. of course, we owe some respect to our landlady, but the landladies and women of the section do they have of befriending and helping the young teachers who come among them, if they would use a little of that tact and interest which Nature
woman to be possessed of.
We don't blame you, Greybird, for feel-
ing sore at that empty-headed teache ing sore at that empty-headed teacher driving with your son in his new buggy just when you wanted to go for a drive,
but do not be too hard on her. Perheps she is young and giddy, but some of that class turi out well when they become a little older. Just take her in
hand a little yourself, interest yoursell in her and her work, and if she is any good at all she will soon become interday make our worr, and you may some


NeWs of the Week.
$\qquad$
Eight were killed and fifty injured in on June 25th.
Seven died in Toronto as a result o
Contracts have been let in Toronto fo the construction of a fine new Union station
At the Medical Convention held in
London, Ont., last week, Prof. Adami, of London, Ont., last week, Prof. Adami, of
Montreal, Chairman of the Canadian Committee appointed to inquire into the Friedmann cure for tuberculosis, reported
that, so far, no benefit whatever has been that, so far, no benent by the committee as a result of
found "cure."
the

Caterpillars, both "tent" and "forest," have been invading Eastern Ontario dur ing the past fortnight, causing great
destruction of foliage in orchards and wood-lots.
Rideau Hall, Ottawa, the residence o the Governor-General, is to be recon-
structed at a cost of $\$ 125,000$.


## THE SHEATH ROD

Mr. W. S, Rogers, State Fire Marshall, of the State of Ohio, says that "The metal in a Lightning Rod should be so shaped as to give a large surface, because the current caused by a thunderbott is of the sort that travels near the electricity crowds into the one-thirtieth of an inch next to the extreme surface.

There is a form of Rod known to the Trade as a "Sheath Rod," which is of Ideal Construction. The copper is on the surface where the current goes.

The "Sheath Rod" with greatest conducting surface is the "UNIVERSAL." It is fastened with a Lock Joint Would you like to see a sample? Drop us a card. Our goods are "Made in Canada," by
THE UNIVERSAL LIGHTNING ROD CO.
HESPELER, ONT.


are Famous for Efficiency and Economy.

Their high efficiency, coupled with their economy of operation and durability, combine to make Massey-Harris Engines, without exception, the most reliable and and satisfactory on the market to-day.

They give maximum of power with minimum consamption of gasoline, and require less repairs than any other

Gasoline Storage is in the Gasoline Storage is in the
hollow, cast-iron Base, which is holiow, cast-iron Base, which is
part of the Main Frame and is pabsolutely tight - no danger from leakage.


GRAND TRUNK SATLTEM SUMY une reaching ati HIGMLANOS OF ONTARIO

## Mukkoka Lakes

Geortan Bay
Higonquin Park

 HOMESEEKERS' EXCURSIONS






Prairie, was | eral |
| :---: |
| 26 th. |

british and foreign
The Bulgarians and Servians, who are
now at odds with each other, fought now at odds with each other, fought
fierce battle, on June 25 th, on the banks According to the tariff-revision bill
passed by the United Stutes passed by the United Statres Sevision bite, raw
wool will henceforth be admitited free into the United States, and tree sugar
Irom 1916. Raymond Poincare, President of France.
was entertained as a royal guest by King
Geoorge during his visit to England lagt George during his visit to England last
week.

The Duke of Suntherland died in Scotland last week. ${ }^{\text {He was owner of one }}$ and
and a half million acres of land in Scot land, and ábout 60,000 acroe in England and other countries.

## Gossip.

Shorthorns and angus at royal COUNTIES SHOW At the Royal Counties Annual Summer Windsor, June 10-13, Shorthome Park, a strong showing The King sent representang showing. The King sent rep his herd and won several important prizes. The class was furged by Arthur Gibson, well known to Canada. In the ageed-bull class, Messrs Dean \& Sons were first with their Scotland's Standard, by Star of Scotland. The two-year-old class was led by Earl Manvers red Marquis of Dorchester, by Duke of Kingston 2nd. In the class for yearling bulls, Sir Walpole Greenwell won first with a very thick, light roan. The cow class was a strong one, the a hat prize going to W. M. scott's day llaid, by Defender. In the two - year - old helfer lass, the King's windsor Belle, by Evander, was the winner.
There was keen rivalry in the yearling heifer section, the first award going to the King's red heiler, Golden Bud, by First Attempt, and second was Mr. Cazaett's Gipsy Countess 3̊rd, by Phingask Comet. The male championship went to Earl Manvers' two-year-old, Marquis ot derche thate chationhip was captured by the King's two year-ola, Windsor Belle. In the pedigree dary shorthorn cow class, the first prize was won by Mr. Lutwyche's red-and white cow, Kohlenda, by Golden Crest. Her yiled was 34 f tos
were well of the section the helfers being the best Sir Geo. Cooper's Randolier of Hease, by Black for Ever of Ballindalloch, wa first, and J. J. Cridlan's Everard 2nd of Maisimore, was second The winnin oow was Mr. Cridlan's Tulip of Standen, of Captain Cookson's breeding, and by
Elector on Elector of Benton. The special for the
best animal of the breed went to sit best animal of the bred went to Sit
Geo. Cooper's bull, Bandolier ot Hosle Mr. Cridlan's cow, Tulip of Standen, he ing reserve. Trade Topic.
frontier days' horsemanship. The championship honors for lady
riders, to be competed for at the Frontie Days' Exposition, July 8-16, will be keenly contested. A Cheyenne, Wyoming despatch says that in the broncho-bust,
ing competition. Fanny Sperry the championship at the Calgary Stam pede last year, has signified her intention
of challenging "Prairie Rose" Henderson who won the world's championship the "Rodio," Los Angeles, last year. In the relay race, atter seven years of re
tirement, Mrs. W. H. Irwin, winner of the Ladies' championship at Cheyenne
Frontier Days in 1902 and 1904, Frontier Days in 1902 and 1904, will
compete against last year's winner. It
 to compete again, and it was only the excitement of last year's race that in
duced her to change her mind. In
 to show the youngsters that sometime
a champion can come back," and fron
aphenge appearances at her training camp, the
would-be champions will have to sho would-be champions will have to show
splendid form to enabie them to win. In the broncho-busting, outlaw - horss
riding, and in every other teature of thi
 with Fair
ait nifs a
a
liftime

## FARMERS! STUDY

THE ENGINE PROBLEM!
Learn how a poor engine eats up profits and goes to pieces in a season


You need an engine. But, remember, it is
not the first cost that counts. Investigate the
QUALITY AND DURABILITY AND FUEL ECONOMY

## п.

AIR COOLED ENGINE
The NEW WAY gives you more years of service with less worry and expense than any
other engine in the world.

You cannot afford to take chances with a cheap, shoddy engine. Buy the
NEW WAY and be a satisfied user of the best, most reliable and most up-O-date Engine made. Write for catalogue. D.C. 12

##  OF GAN/DA, LIMITED, WELLAND, ONT



A COLLEGE EDUCATION FOR THE BOY!
If ${ }^{\circ}$ you are a college man you know that your son should have a college training, If you are not you will probably be more positive on that point and with very good reason. itself but the conditions under which it is acquired education

> Woodstock Gollege
hifers boys a liberal education under conditions which every right thinking parent is bound to approve of. Your boy has the choice of
Four Courses: Arts Matriculation, Science Matriculation, Business and Teachers. The Manual Training equipment of Woodstock College provided for by large grounds and campus and fine gymnasium.
Write Principal for Calendar and full particulars.

> A. T. MacNeill, B.A.

Woodstock College
Woodstock, Ont.





## Canadian National, T

Canadian National, Toronto,
August 28 to september 8 .
Canade Canada Central, Ottawa, Ont., Western Fair, London; Ont.,

## Questions and Answers.

 Miscellaneous.
## Poultry Ouestions.

1. Do a mixed flock of hens lay better than just one breed?
2. If you were just keeping one kind what breed of fowl is best for all pur poses?
3. What is the cause of roup, and a remedy for it?
4. What is the best feed for small chicks? Have been feeding min small ened bread for a lew days, moist bread and potatoes mixed with shorts. but quite a few have died, H. A. R. Ans.-1. Sometimes. It depends good deal upon the, blend of blood in the mongrel flock, upon whether or not they are badly inbred, and also upon the laying quality of the particular pure-bred, or strain of it, with which they happen 2. We keep White Wyandottes,
5. are other breeds in the same class just as good, Barred Plymouth Rocks and
Rhode Island Reds, for instance Rhode Tsland Reds, for instance.
6. The cause is contagion, contribut ing causes being dampness, drafts, ill ventilation, and general insanitary con-
ditions. Separate affected ditions. Separate affected birids from
well ones, putting the latter, by preferwell ones, putting the latter, by prefer-
ence, into clean quarters. Disinfect the
premises where roupy fowl have been,
and use some good proprietary roup cure
in the drinking water as a proventivo,
also treating with it, according to diree also treating with it, according to diree
tions on package, tions on package, any cases not disposed
of outriftit ty kinng, Whiti
fitter colic is often advisable in case of all anfected birds, when not too numerous.
7. It pays to use the prepared chick loods on sale by feed dealers. A bos goes a long way with young chicke, and,
as they become older, whole grain, espe cially wheat, may be subistituted. Tuberculous Cattle. 1. Is there any compensation patit the
wners of cattle killed hecause they aro uffering from tuberculosis?
8. If so, have they to be destroyed it he presence of a Government omelal?
Ontario. Ontario. SUBSCRIBER.
Ans. -1 and 2. No Ans.-1 and 2. No. There is no com-
pensation pald by the Federal or Provincial Government for animals slaughtered on account of tuberculosis. Nelther Covernment orders any animels slaughi-
Swollen Head.

Would you please tell me what to do ith my turkey hen? She has a swollestrils, and a thick, milk-llke flutd cal be squeezed out. She has been like thil aor some time. I have given the muriatie acid for black-head; but she gets no
better. A SUBSCRTBER'S WIFE. An - It is subscriber's nitely what ails the turkey. Probably it and disinfect the premises. If the bird and disinfect the premises. If she is not better to kill and burn her than to run the risk of contagion being distributed through the flock. Of course, it may be this reaches you she should be better if
this was the cause of the trouble.


## Holeproofflosieng

So soft and stylish, and can be had in such light weights, that many say, "These hose are ovaranteed to wear a full six months.
six months.
We pay an average of 74 Hole a pound for the yarn in costs 32 cents. 74 cents is the top market price for cotton yarń-Egyptian ans Sea Island. Ours is $3-\mathrm{ply}$, longfibre, fine strands. Pliable and soft, but of the maximum strength. We spend $\$ 60,000$ a year for inspection, to see that each pair of Holeproof is perfect.
The above figures refer to Holeproof as mad
tates and Canada.
his signature: 厄
eschl
Hosiery Company of Canada, Ltd.
311 Bond Street, LONDON, CANADA

## Low Fuel Consumption

Six pairs of men's cotton Holeproof, $\$ 1.50$ to $\$ 3$ a box; women's and children's, $\$ 2$ to \$3 a box of six pairs; also three pairs for children, guarSilk Holeproonths, $\$ 1$ a box box of three pairs. silk stockings, $\$ 3$. silk stockings, $\$ 3$ a box of silk guaranteed three months. Medium cashmere socks, six pairs, $\$ 2$; fine cashmere, six pairs, $\$ 3$. Women's fine cashmere stockings, six pairs, $\$ 3$. Six pairs of cashmere are guaranteed six months,
Genuine Holeproof are sold in your town. Ask for dealers names. We ship direct where there's no dealer near, charges prepaid, on receipt of price.


Ros. V.

SO satisfied are we of the low cost of running our engines lowest possible fuel con sumption on gasoline or kerosene

## Barrie Engines

are built in one of the most modernly equipped engine factories in America They are neat, simple, strong and reliable. So easy to start and control that a boy or girl can run one. A big, strong company
stands behind Barrie Engines and stands behind Barrie Engines and guarantees everything about them.

Write for catalogue showing complete line of air-cooled, hopper-cooled and tankcooled engines in stationary, portable and semi-portable styles. Aso hoisting, pump-
ing and marine engines. Sizes 2 to 400 ing and mar
horse-power.

The Canada Producer \& Gas Engine Co., Limited BARRIE, ONT. DISTRIBUTORS: James Raed Medicine
Hat Canad Machin-
art


## Book Review.

 "the fapmer of to-morrow There was a time in the United States when land was rree, and regarded simplyas a means of labor. But free, virisin
ast
 In the United States, the tax value of the everage ecre of ferm land wis
816.57 in 1900 , but in 1910
to
 Land has become capital, and the "back-
to-the-land" man doos well to reckon
 ods and management will not do. But
the population durin the ten years
thpecifod grtew by $16,000,000$, and the specified grew by 16,000,000, and the
value of tarm land is directly affected by Value of farm land is directly affected by
the number of mouths to be fecd by th
producte products. In the circles of agricultural
science, a keen controversy has been goscience, a keen controversy has been go-
ing on over the hypothesis of the Bureau of Soils at Washington, that the mineral
olements and that the soil cannot be destroyed. Antiquated methods and management will
not suffice.
Fineness of soil
grains is not suffice. Fineness of soil grains is
held to be more important than chemical heta to be more important than chemical
composition. Soils get "tired" and need a change of occupation. In appplying
barn-yard manure, it is not the didition barn-yard manure, it is not the addition
of "plant food" so much as the toxie of "plant food" so much as the trxie
effect that benefits, and this increases the soir's capacity to hold moisture. These points will give an idea of the
readable character of readable character of a new work, en
titled, "TThe Farmer of To-morrow," by Frederick Irving Anderson, published by The Macmillan gard to the indestructibility of the re it favors the position of wilton Whitney,
and the United States Burean and the United States Bureau of Soils-
Scientists
through this Copies may be secured through this office at $\begin{aligned} & \text { m1.60, } \\ & \text { posid. }\end{aligned}$ postage

## Trade Topics.

cheap rates to foinnipeg.
As announced in the advertisement in
our last issue, the 1913 Winnipeg Cana-
 dvertisement 8 h to the the reed rail way rates, by and note the theial traced rain, from ton-
don, July 8th. don, July 8
Attention is called to the advertise; rods, made by the Universal lightningRod Company, Hespeler, Ont. LLight-
ning destroys many buildings every season, and experience proves that buildings properly rodded are thoroughly protected
against this destrover. If you are contemplating rodding your buildings, see see
the advertisement and write for desrip he advertisement
ive literature.

all kinds of merchandise, sut the shoote who wants the greatest satisfaction from
his shooting should not overlook Winhis shooting should not overlook Win. Sheo the advertisement in another coluen.

Attention is directed to the advertise ment of Tower Farm Oxford Down sheen of the beat anctlo ade. many prizee at our larige canTower Fane to representatives from hearling a number of extra good ported three- year-old ramed, also one imtime to select, a ram before the good larmbe trom imported. Ewo and ewo stock, a number the show-ring, make one of the most tractive oflerings possible. See the ad veruisement and 'phone or write. E. Bar

Benj. Horton, Chairman, with. Joh Prosser, Managing Director of the "Mo-
lassine" Company, of London, makers of the well-known "Molassine Meal," have been making a rapid visi to seounc Canada and the United States tions in America. Last year's Ior "Molassine Meal," through the able management of L. C. Prime Co., Ltd. of St. John, N. B., was far greater tha serious consideration for the quick sup plying for the largely-increased require ments of the future. L. C. Prime, Gen visit, and made orrangenent fost for plying the Great West of Canada. This was done chiefly in response to the large number of requests coming from, Britiss
settlers who had used "Molassine Mel' in the old Couttry "Molassine Meal it over here. See the advertisement.

In keeping with the policy of the house as originated and developed by the late
Geo. H. Pedlar, additions to the oshawa headquarters have recently deen made which iwill further increase the ble organization already strong and capaBranch Manager of The Pedlar People Limited, at Toronto, who has a thor in his canadity of the financial end, will. bring his ample knowledfe inte Lsel, which, added to his experience in
selling sheet-metal of the branch at Toronto, will enable applying to trade sane thation correctly as metal lines. The operating Deantment has been strengthened by, the addition of w. Loach, who has had a wide and varied mechanical and manufacturing ex-
perience in United States and Canada. perieral new developments are now under
Several way, which will be of general interest to the trade when particulars are announced.
A further
addition has just been made in the person of A. T. Enlow, in general charge of sales and advertising. Mr.
Enlow is a steel man of large experiEnlow is a steel man of large experi-
ence, having been connected with the manufacture and sale of steel in the
United States for the last twe It is safe to say that the addition of these three experienced men to the al-
ready strong and aggressive stafif of The of which W. H. Hall and F. L. Maso have been prominently associated in the development of the great business, as ac-
tive co-workers with the late Mr. Pedlar, means a continuation of the policy which metal-working activities in Canada and
nuroad

## Gossip.

The dispersion sale of Shorthorn cattle the property of J. G. Barron, Carberry Manitoba, on June 11th, was an un-
qualified success. Buyers were out in qualified success. Buyers $\begin{aligned} & \text { were out in } \\ & \text { numbers } \\ & \text { from Manitoba, Saskatchewan, }\end{aligned}$ and Alberta, and bidding was always brisk. Forty-nine head sold averaged
$\$ 206$ each: 19 bulls, mostly $\$ 206$ each; 19 bulls, mostly young, aver-
aged $\$ 166$ each, while 30 cows and heifaged \$166 each, while 30 cows and heil-
ers averaged $\$ 236$. The top price for a female was $\$ 410$, paid by Wm. Honey, of Binscarth, Man., for Fairview Jubilee Queen, by Topsman's Duke. The highest
price for a bull was $\$ 280$. paid by Wm. price for a bull was $\$ 280$, paid by Wm.
Murdock, Greenway, Man Murdock, Greenway, Man., for Fair
Thistle, a son of Mistletoe

# A CONCRETE SILO 

## Is One of the Best Investments on a Farm

T
HERE is no question about the advantage of having a silo．In the winter and during dry weather in the summer，it assures the dairyman of an increased milk flow from his cows．Silage also makes excellent feed for steers．Every dairyman and stock－raiser who has a silo will tell you that he would not care to do with－ out it．

The silo here shown is 16 ft ．by 35 ft ．high．The inside diameter is 15 ft ． This will give silage for 182 days for 30 head of cattle． About 20 tons of silage will go in each 5 ft ．of vertical height of the silo．

The quantity of cement required to build a silo of this size is approximately 55 barrels．Other material required－－－about 13 cords of gravel and $11 / 2$ cords of small field stone．，量目㻁

## A Few Advantages of Goncrete Silos：

Being air－tight，there is no waste with a round cement silo．

A concrete silo prevents all danger of waste from frost．

Concrete silos are per－ manent．The severe wind－ storm of several months ago blew over and dam－ aged quite a number of silos，but concrete silos were not damaged in the least．

There are many other advantages，which are given in our 128－page book，＂Portland Cement on the Farm．＂The regular price of this book is \＄1， but you can obtain the same free in connection with our Special：＇Offer，as follows：Send us $\$ 1$ for the Rogers Book，and we will mail you with the
book an order for $\$ 1$ worth of cement on the near－ est Rogers dealer．If there is no Rogers dealer in your vicinity，send us 50 c ．，and we will send you the book by return mail．The information con－ tained in it is worth hundreds of dollars to you．

When building concrete silos or making any improve－ ments in concrete，be sure to buy ROGERS＇PORTLAND CEMENT．The man who knows cement will tell you that ROGERS＇BRANDS are best．

## ALFRED ROGERS，LIMITED

HORSE OWNERSI USE CAUSTIC BALSAM.
 Mori. or blometbento prodico

## DR. PIAE'S EMELISH

 SPAVIII CIRE
##  

B. н. Bull Gossip.
B. H. Bull \& Son, the widely-known
importers and breeders of Jersey- cattion importero and breeders or Jersey cattle,
Brampton;
 Viola's Bright Ptimce, purchased on the
Italand of Jersey over a year Yeland of Jerseg over a year ago. The
best of the two-year-olds and three-vear-
olds
 get. Some United. States readers state
that they believe this tanity that they believe this family to bo su-
perior to any other tribe of the plum perior to any other tribe of the Plum
Tree Golden Fern's Lad. A daughter this bullen topped the heiters' best sale in
Kentueldy Kentucily, and six of his daughters im-
ported by another ported by another noted American
breeder, are believed by him to bo the best six daughters of any bull to be imported this year. The Brampton firm
have for sale many have for sale many young bulls rich in
the blood of Viofa's Bright Prince a few young calves by him. Abond
thirty young imported bulls, almost fit Yor sorvice, are oflered, and anything de sired in remales. See the advertisement
elsewhere in this isse elsewhere in this issuu.
SPLENDID PRIZE LIST FOR OTTAWA'S The prize 1913 FAItr.
The prize list for the Central Canada
Exhibition of 1913, which is now bein Exhibition of 1913 , which is now being
distributed, is an attractive and inter-
detren esting booklet. The Ottawa Fair dates
are from are from September sth to $13 t \mathrm{th}$, afford-
ing six full days and sin ing six full days and six full nights of
complete programme.
Exhibitors Complete programme. Exhibitors are
advised that entries close August 29th. A new and special entry form for live
stock, calling for various stock, calling tor various details of in
formation, is sent out in order Cormation, is sint out in order to expe
dite the compling of the catalogue of exhibits before the Fair opens.
The big feature of the 1918 Fair, in

- Ottawa, so far as farmers are concerned ottawa, so far as farmers are concerned,
is the Free Freiggt proposition. The
The exact conditions are set out thus
- Freight CFreight charges (not express) on ex
hibits of live stock, from points in on-
lis. tario and Quebec, will be refunded to to the
exhibitor by the Exhbibition Association This arrangement covers charges from last shipping point to ottawa. The regular on-way rate must be prepaid by
the oxhibitor, and retund will be made
by the by the Secretary upon production of the
original bill of lading.
Exhibits remaining intact will be returned free to origiUpwards of $\$ 20,000$ in prize money is carefully revised with changes mate to
che meet the wishes of exhibitors. in the horse department. with was added The sum of 8100 was transferred prizes. Agricultural class of horses. Three new prizes $\left.\begin{array}{l}\text { were established for grade dairy } \\ \text { cattle. An addition of } \$ 250\end{array}\right)$ the poultry premiums, all the 2 nd prizes being raised from $\$ 1$ to $\$ 1.50$ and third,
from 50 to 75 cents. from 50 to 75
other changes. other changes. . There are several Persons interested may obtain copies
of the prize list by writing F Manager, 26 Sparks street, Ottawa.

Work-Horse Parade Figures.
The statistics of the recent work-horse
parade in Boston disclose some interesting facts. There were 1,231 entries, and
of these only 89 failed to appear smaller percentage of absentees than is usual. There were 1,516 horses actual-
ly present. In the Boston pard and the ribosenves a ribere a warded receives one as follows:
First (hlue), First
third (blue), 765 ; second (red),
(redows
235; No horse that was lame, thin, or bad-
1y groomed, received ly gromed, received a ribbon, but the
number thus disqualified was astonishingly small, being as follows : ${ }^{\text {Insen }}$ Seven-
teen teen for lameness, 16 for being thin, 6 for being badly groomed. These results
show how much the horses in Boston
have imowed have improved in quality and condition
since the first annual parade ten year
ago.
.

## Shires and Shorthorns





Bring llome
the Ribbons
and Cet the Money
BY USING THE BEST STOGK CONDITIONER Caldwell's Molasses Meal

 The Caldwell Feed Co., Limited, Dundas, Ont.

## Buy from the factory

## Save the Agent's profit




DILLON'S STALTS and STAUNCHIONS


$$
\begin{array}{cc}
\text { NEW AND SECOND-HAND } \\
\text { Gut to specifieation for any purpose } \\
\text { JOHN J. GARTSHORE } \\
\text { s8 west Front St. }
\end{array}
$$

$\uparrow$Mount Vietoria Glydes \& Ilackneys what
 CLYDESDALSS, PONIES, BULLSN
 (anhitemo prum JOHN MILER, Jr. Ashburn. Imported clyDesdalis.


BARBER Bros., Gatineau Pt, Oie, near ottoma CHOICE GLYDESDALE STALLIONS AND MARES Both impored dad Canadian berd almysy on hand at SMITH \& RICHARDSON,
Collumbus, Ont.

 JOHN A. BOAG \& SON, OUEENSVILLE, ONT.
 BRODIE



The Auld Herd We have females of all agee and of and pleasant valley the best Sootch families for sale. Shorthorns. Those interested should come and Correspondence invited. Guelph or Rockwood Statione. A. F. \& G. Auld, Eden Mills, Ont. Willow Bank Stock Farm - Shorthorn Herd, Established 1855 .

MEADOW LAWN SHORTHORNS


DAIR Y-BRED SHORTHORN

Ottave MARES chard Buxh $G, 7.8$
 LE, ONT.


## ONT.

dit

gee and of
$=\mathrm{f}$ for sale
come and ce invited. 118, Ont. tablished 185.
Butterfly
bull,


## JIY 3, 1913

## GURAR AS YOU LIKE IT



BUSINESS AND SHORTHAND
Sabjectst taught by expert instructors


Lone inimo
 in seasion from Sept
J.W. Westervelt J. W. Westervelt, JIo


WA DRUMMOND ECO
214-kiNG.sTEAST. toronto - cankada


Max Stolpe, Landocapo Archlitect-Arith






THE FARMER'S ADVOCATE.

Questions and Answers Miscellaneous.

Selling Rented Farms.
I rented a farm for a term of years lord has sold some I rented it the land consulting me. Has the land without consuling me. Has he the privilege o,
doing so without my consent?

Ans.-He could sell it only subject to
Address Wanted
Address Wanted.
Please give the name and address Governmont from whom tart a fox farm.
Ontario. Ans.-We are aware of no statute regulation governing fox farms, and the
Law Clerk of the Attorney-General's Law Clerk of the Attorney - General'
Department assures us that there is cer tainly none in this Province. A license is not required any more than a licens

Diseased Raspberry Buds I have a tame raspberry bush about
our feet high. The outstide leaves seem to be curling up and dying. I have ex--
amined it, and find no bug or worm eatamined it, and find no bug or worm ea
ing it. Would be much obliged is ing it. Would be much obliged it yo
would tell me the cause, and what for it.
Ans.-There are many diseases whic might cause the leaves to curl and wilt
We are inclined to think that perhaps We are inclined to think that perhap
the bush has crown gall. Dig down a
the root and see if there are severa $\begin{array}{cc}\text { irregular swellings present. } & \text { If so, di } \\ \text { If }\end{array}$ the plant out and lurn it, It may b
theit the raspberry root borer or the cane borer is causing the trouble. Cormer insect is found working in th
root, and the latter in the nith root, and the latter in the pith of the
canes. Examination would reveal the canes. Examination would reveal them
Then there is a disease called leaf-curi, which, as its name implies, causes th leaves to curl up, and, while they ma growth is made. This disease spree slowly, but new. plants placeas where a aflected one has béen removed, generall become affected, Berries are a dunl
color, small, and otten bitter color, small, and often bitter on bushes
attacked by this disease. If you cannot attacked by this disease. If you cannen
satisty yourself as to the disease, send a specimen to the Horticultural Depar Permanent Pasture.
We have a paddock, about six acres,
which we keep specially for our work which we keep specially for our work
horses. It has not been plowed for ten years, and now grows a very poor quality of grass, which is not at all relished by the horses. We require all, or nearly
all, our manure for other land. 1. our manure for other land.

1. What would be the best way to enovate it?
2. What would be a good mixture grass seed to use for a permanent pas
ture? The soil is loamy. Sore The out in ioms w. B. p. Ans. -1 and 2, The pasture might be
moroved by sowing more grase meod voed the old sod in the tall or early spring,
but doubtless best results would be obbut doubtless best results would be ob-
tained by breaking the land up and retained by breaking the land up and re-
geeding. Old pastures which get full of wild grass, seem to run out and require breaking. It is not likely that the land
is in poor condition, as the manure from is in poor condition, as the manure from
the stock would likely keep up fertility. It might be worked as a summer-fallow or a season to rot the sod, or a hoed
crop might be put on it. As soon as crop might be put on it. As soon a
the sod is rotted, and the land i the sod is rotted, and the land is
in good tilth, it could be re-seeded. It might be advisable to let it grow a crop of clover before re-seding to grass, as
this would help loosen it up. Another this would help loosen it up. Another
good crop, which could be used on the
nowly-plowed sod, and one which generalIV leaves land in good condition; is peas,
In fact, peas and oats might be sown In fact, peas and oats might be sowi
thickly on it, and cut for hay or green feed. A good, permanent pasture
composed of alfalla, 5 lbs.; alsike clover, 2 lbs.; white clover, 2 lbs.; meadow
fescue, 4 lbs.; orchard grass, 4 lbs.; tall oat grass, 3 lbs.; meadow foxtail, 2 lbs., This is rather an expensive seeding, bu produces a great mat of permanent pas
ture. If the land will not produce al
alfa it may be omitted from the seed


SHORTTHORENS
One high clase imported 12 -mothe buil carf: one jurior yariling thow bull; oue

 SHORTHORNS AND CLYDESDALES 5 bule from 8 to 15 monthe -3 roane and 2 reve. Femeen of all asee.
部u , rinion jar. sta. W. G. Pettit \& Sons, Freeman, Ont, 1 STILL FOUR YOUNG BULLS FOR SALE ANDMore Several hefreer that are bred rischt and that vill melhe great combicome of them th/ call
 ROBERT MILLER,

STOUFFYIDE ONT
5 Shorthorn Bulls 5 -we hove for phe at modente prices 5 seotcte A.J. HOWDEN \& CO., COLUMBUS, ONT.
-1 11 P -Records show that cattle bought from the Solem LLORA, others. Several young bulls are priced reasonably.
造
5 YOUNG BULLS



Aberdeen-Angus of show Form

 Oakland-50 Shorthorns



Spring Valley Shorthorns

 cmis bros. - RR, No.1, Drumbo, Oat Cherthorns, Cotswalds, Bertshires

 arat preent in Bertiblice. co. chis. E. BonNyCASTLE

TheManorShor , 7 .
 J. T. GIBSON,

SHORTHORNS!
 U. Gargill \& Son, Gargill, Ont. Spruce Lodge Shorthorns \& Leicesters Prement oifering Y Young bulla, and heriferr frome
 GEDARDALE SHORTHORNS

 Clover Dell Shorch orpo-- arrains in both
 head of herd
tuns- - mide mactrane
 Holstein Cattle


The Maples HOLSTETN Herd
 Mert dimp dith reonde nip to 2 alibe. butWALburn RIVERS, FOLDENS, ONT. Maple Hill HoLstein- Friesians
 R. ‥ No. 2, St, Georre, ont. GOLSWTEINS Stock Farm 2 yEARLING
 IF YOU WANT BEST RESULTS Advortise in the Adveoste

THE FARMER'S ADVOCATE

Questions and Answers. Miscellaneoua.

## Stinkweed.

What is the enclosed plant Ans. -The weed is stinkweed, or pen issue of June 12th, page 1091.

Mare Fails To Breed
Have a Clyde mare three years old which was bred last year and failed to our times, and this year she has been served twice. Had an experienced horse nan insert his hand, and found what he supposed to be a piece of fat over neck
of womb. Will this prevent her from becoming pregnant? Can anything be done to remove it? D. McD. Ans.-It is altogether likely that the os, or opening to the womb, is closed It may be caused by a growth, or by
contraction. What the operator telt is ikely a tumor of some kind. The neck of the womb must be open before, con-
Ception can take place aption can take place. Have your simply constricted, he will be able to

Veterinary. Blistering Colt.
Yours re lumps on colt to hand. The colt is a sucker and cannot be tied, but
could shut it up while the hlister is on. I want to treat at once, as the B. R. T. Ans.-We were quite aware that the
colt was a sucker, and that is why we advised waiting until fall before treating, as it could then be tied. If you ann devise some means of
from biting and licking the parts until
the oil is applied, it will be all right the oil is
treat now.

## Heavy Breathing.

Yearling heifer is in good condition but when she runs she acts like a hors
with heaves. Seems as if she could oreathe deep enough. Would it be wis to keep her for a breeder, or sell her to
the butcher ?
A. M. Ans.-The symptoms indicate pulmonar
tuberculosis, but there is no means diagnosing except the tuberculin test a veterinarian. If she be tubercular,
is doubtful whether the flesh would fit for use. In any case, I would keeping her for a breed
Swollen Tendons and Knuckling. Two-year-old colt became stiff on one
leg and then on the other. The cords are swollen, and the fetlock joints are
swollen and knuckled. wollen and knuckled.
Ans.-Get a blister made of 2 drams tharides, mixed with 2 ounces vaseline Clip the hair off swollen tendons and
joints. Tie so that he cannot bite
俍 lick the parts. Rub well with the bio ter once daily for two days, and on the how in a apply sweet oil. Turn loose until the scales come off, oil every day blister again as at first, and after this blister once every month as long
necessary. Keep as quiet as possible. Indigestion.
Mare nursing colt has not been well boiled oats three times daily, quarts of give her powders given by a veterinarian
who has seen her. I have had three veterinarians in attendance. She but given aloes and oil and p
but seem much better eats well, but gasses seem to form in
her stomach. Ans.-The veterinairians in attendance. doubtless are treating the case properly, much better position to diagnose in a reat than I. I would suggest, in ad
rition to what is rolled to what is being done, to give one-quarter of its bulk of lime water. veterinarian suggest that you consult your
making the change

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Why does the squirrel take to the oak instead of the wren when dimbing for protection ? Because it mean sycamore when climbing for protection tide safety, whereas the sycamore means accident

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DON JERSEY HERD ${ }^{\text {bafirs }}$ young
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Miscellanoous.

## Chickens Die.

I have had over forty chickens die in
less than one week with something I lieve to be contagious. They would eat and then stand around with their eyes
closed, and before they died their closed, and before they died their eye
would not open at all. They set their heads back on their shoulders and stan till they drop dead. They were three o Your days sick like that before they died
They did not have diarrheo They did not have diarrhea, and I fe
them bread crumbs and whole shorts moistened. Some of them an four weeks, and some three weeks old
I gave them a proprietary liniment I gave them a proprietary liniment in
their drink, but it did not do any good, as they all died. I should be muc and how to treat it.
$\begin{array}{ll}\text { Ans.一The sympto } & \text { B. }\end{array}$ Ans.-The symptoms given would lead
us to believe that the chicks are affected
wit us to believe that the chicks are affected
with lice. If so, about the best treatment we have found is as follows: Mi
onie part 90 -per-cent. carbolic acid wit three parts gasoline, each by measure
To this, add enough plaster dry it off after mixing well of Paris biras well, but if chicks are very small,
be very careful in using this mixture, it is very strong. A. C. McCULLOCH

Ants and Aphids.
How can I kill small, black ants, which
are destroying are destroying a Virginia Creeper ?
SUBSCRIBER. Ans.-The ants which you find running
up and down your Virginia Creeper are not in any way injurious to it, but they
indicate the presence of aphides, or plant indicate the presence of aphides, or plan
lice, which are very injurious because lice, which are very injurious because
their sucking the juices of the plant upon which they live.
This is
This is one of the interesting cases in
natural history where one insect natural history where one insect make
use of another without destroying it The aphides secrete a honey dew upo which the ants feed; in fact, ants trea
them much like cows, inducing them give off this sweet secretion by strokin The aphids, may be destroyed by spray
ing them with some caustic wash, such
as as strong soap suds or tobacco water
Attempting to kill them with Pari green, as is often tried, is useless, as
they insert their beaks and suck, the juice of the plant without getting an
of the poison, but the caustic nature of the poison, but the caustic nature
strong soap suds or tobacco water act ing upon their soft bodies soon destroy
them. It is necessery there them. It is necessary, therefore,
fighting insects of this kind to spray s that eli. L. HUTT.

Tetanus.
We have a fine young mare which has
some trouble our veterinarian calls lock some trouble our veterinarian calls lock
jaw. We had not been working her for a few days, and on Mondey morning,
June 9th, I went down to the pasture to get her to go to work and she ap
peared quite stupid, and if I would give the least pull on the halter she would
turn her eyes back so you could not turn her eyes back so you could not se
the ball at all. We have been keeping her quiet in a dark stall. She is not
able to chew hay take plenty of mash made of bran chopped oats, and oil cake. She look quite smart now, $\begin{gathered}\text { ment will make her turn her eyes back }\end{gathered}$ in her head. Do you think she will ever
get better? get better? Our veterinarian thinks sho
will. If it were not for her eyes, you would think she might go to work.
The medicine we have been using costa The medicine we have been using cost
us $\$ 4$ per day; $\$ 2$ night and morning us $\$ 4$ per day; $\$ 2$ night and morning
It is called anti-tetanic serum.
Do you know anything of 1 t , or hav M. R.
tried it? Ans.-The contracted condition of the
muscles of the eye is a good proof your veterinarian's correctness in diag nosing the disease: From the descrip-
tion given, the disease did not develop its acute form, being a mild or sub-
acute acuite probable the mare will get well in time. The use of anti-tetanic serum in
the proper procedure, as dosing the ani mal with medicine often does more harm
than good. Keep the mare quiet, and
under no circumstances excite her until the attack has fully passed.

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Peopie in a Missourt town are tellifing happened ip Judge Tedford's court, It the witness was a negro woman, whose reply to every question was "I I think
so., Finally the opposing lawyer rose and he roared, "you cut that thinkitity business, and answer my questions.
talk., "Mr. Lawyer Man," said the witnoss, souse me. I ain't like you 'torneys. out thinkin


Questions and Answere Miscellaneous.

Henhouse Plans.
Will you send me plans of a warm and inexpensive henhouse, which will accom modate one hundred hens ? L. F. Ans.-We would advise you to get a may be had upon application to Pro W. R. Graham, O.-A. C., Guelph, Ont. Saluting the Flag.
here secretary of the schoof board here, and in visiting the school the other is the proper way to teacher, Wha I could not answer, so thought I would Ans. The. Ans. The usual salute is simply to Silage 0
Silage Queries--Pneumonia in Steers 1. Would silage, put into silo in Sep-
tember, 1918, be as good feed during the winter, of 1914-1915, as it would be during the coming winter of 1918-1914? 2. If two feet of silage were still in only one cow, silage being as we keep cattle, should such sliage be taken out
cila of silo betore putting in this year's crop?
8. What would you think of two feeds of silage per day, and one feed per day
of unthreshed rye, cut when green, for steers during winter, when they are to be fattened on grass the following summer, or would it be better to let rye
ripen, feed the straw, grains ground fed on the a milage?
4. Is a steer that suffered from pneu4. Is a steer that suffered from pneu-
monia last winter more likely to be afmonia last winter more Tikely to be af
fected with same trouble next winter than if he never had had it? Ans.-1. Properly summered over, and the spoiled part thrown of the top be-
fore putting on fresh, it should be. 2. Not necessarily. If the little bit of spoil
filling.
an
8. We would be inclined to prefer the use a part of the rye as hay, and the remainder to be mixed with other grains and led as a light ration. 4. Possibly so. It may have weakother hand, he may never have a second ttack. The thrift of the steer should it is likely to occur again
Value of Skim Milk and WheyOverrun
of your valuable paper, and adted reader fearless stand taken on different ques MaArthur's ways look eagerly for Peter MaArthur's weekly budget, which is cer-
tainly refreshing. Would you please swer, through the medium of your paper, the following questions

1. What is the cash value per cwt. of hogs? hogs ?
2. 

100 1b 100 lbs. of butter-fat make ? Ans.-1. There is no uniform, fixed, cash value. It depends very much cost of stock as the abundance and price of other feeds, the consume ition the tance, if any, that it may have to be hauled. Speaking generally, we consider
that good, sweet, $\begin{aligned} & \text { separated milk, fed }\end{aligned}$ warm on the farm where it is produced, cwt., and it raising calves or young pigs we would rather pay 40 cents per cwt . for a limited quantity than
to do without any. to do without any. Pasteurized whey,
in good condition, it not excessively di-
luted with wash water, should be worth 12 cents per cwt. for pig feeding.
get the full value out of either by-p get the full value out of either by-pro
uct, one must use it moderately in junction with other suitable feeds. 2. In ordinary commercial practic
should overrun should overrun a sixth.
should make mat is, should make $116 \frac{2}{2}$ pounds of butter.
However, the overrun varies with many
conditions, creameries, going sometimes below and creameries, going sometimes below and
sometimes above this average standard.

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