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Vol. XLVIII.
LONDON, ONTARIO, JULY 31, 1913
No. 1088

## Frośt Angle Steel Fence



## Will Make YOUR Home Look Just As Nice

The fence shown above is constructed from angle steel throughout, which gives it the strength as well as the appearance of a massive iron fence. It is particularly adapted for farm lawns, as there is no other exterior improvement that lends the same amount of neatness as a good metal fence.

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If all the farmers, knew, Hometsead Fertilizers as
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teed.
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When Writing Mention Advocate


Vol. ẊLVIII.

## EDITORIAL

Ganada's forelign trade has paseed the billiondellar mark.

Harvesting may be the rush-meason of the year for the farmer, but it is not the most impertant by a loing shot.

We go chasing health, happiness and prosperin to the ends of the earth when usually all the ingredients are lying about our own doors.

Our attention has not yet been called to an more optimistic sight than a glorious corn field maving its luxuriant arms in the summer sun.

We regret that exigencies of space have render od it necessary to hold over two successive in to avoid further Nare's Diary. We shall enḑeavo

Great as well as small folk feel the pinch of the high cost of living. The United States Secretary of State, William Jennings Bryan, finds himself unable to get along on $\$ 12,000$
year, and a farm.

Last year, when thousands of barrels of good Arthur made rotted in the orchard, Peter Mc well-packed fruit to Edmonton cutting good, or four of the six middlemen that Mr. Hart tells about in his article. The mouth of the tells watering for good Ontario apples, but some is gree of thoroughness, enterprise, and high principle has got to be injected into the trade if we are to hold it against the Pacifie Slope.

## A Strike of Agricultural Labor.

 d on the Union labor to become widely organiz corner of the industrial ? In the South-east Ging., a union of agricultural laborers has been ormed, said to embrace ninety-five per cent of the workers and to number three thousand men. week, a twelve-hour working day and overtim afterwards, a Saturday half holiday, and recogniion of the union. These demands represent a concession from the original program, in which the men had asked for a day of ten hours. To enforce their demands a strike was begun on June 21st, and a state of guerilla warfare 'en-sued. The laborers organized a cyclist 'scout sued. The laborers organized a cyclist 'scout
system and arranged outposts to prevent farmers importing free labor or exporting their produce. Judging from British publications to hand, would appear that most of the employ mands, except the crucial one of recognition of the union.
The lot of the English agricultural laborer has the age, but it is significant that the strike has occurred in a section where wages at least rule The movement is other parts of the country casion thought.

LONDON, ONTARIO, JULY 31; 1913.

The Money-making Penalty. Agassiz that ho had '"No farod saying of Liouis money." And yet in a fow ehort yeirs bordig during was his contribution to the onrichmient American educational life, and how fow are the names more imperistably enshrined thail that of 1857 It naturalist of whose fiftieth birthday, in 1857, Longfellow sang

And Nature, the old nurse, took The child upon her knee
aying: "Here is a story book Thy Father has written for thee. Come wander with me," she said, nd read what is stll In the manuscript

And whenever the way seemed long, She would sing a
Or tell a more wonderful song ,
Anticipating more recent movements in nature study, the influence of Agassiz on methods of teaching was prompt and decisive. So the late Prof. William James has well said: "The good seems never committing abstractions to memory did at his hands. school teacher now in New Fingland who publictell you how Agassiz used to lock a student up in a room full of turtle shells, or a student up or oyster shells, without a book or word to help him, and not let him out till he had discovered all the truths which the objects contained." "Go to nature, look and see for yourself," was his loctrine. He lived by faith, looked forward, not backward, and the memory of him comes up like resh and young.
What chance has your mere money-maker to shine on the pages of posterity, or to have his name safe-guarded in public affection? Why of the best informed of Canadian public librarian was being piloted on New York City, where millionaires were Avenue, than farmers on any township concession line but not one name in a dozen of them had he ever heard of. Million-dollar' mansions are occupied by garbage kings "and others," or inherited from men who, a few years ago, fitted meteor-like across the financial sky, but are already forgotten except in squabbles over their "last will and testament," or in the unsavory divorce court proceedings of their "heirs and assigns.". Happily here and there one of them is rescuing himself from oblivion like Andrew Carnegie by his ample library and educational benefactions, or John D. Rockich University cipag und
Praise Join from whom oil blessings flow." Happy the farmer who runs such limitad risks of becoming entangled in the ranks of the millionaires ! Record crops have their perils, the make," forgetting what ought to be the real purposes of life. The penalty of mere money forgotten swarms of Cash Kings, it did not Fifth Avenue librarian friend on his travels to be any par lar achicvement. One of these days the twentieth
eentury will ovolve soms othet meesurimy stiel for succese than fust the amement of ollars however usoful they may be tie á passing medtom of exchange.

## The Cornfield.

Corn is a magnifivent crofo. Planted in miles or drills with unly a for puarre ef med to the acre, it sends up scattering sprouts which nusafterwards to produce. As buiks of forage it is arterwards to produce. An days pass the stalks foliege shades the ground. Then, some day atbor a warm July rain one looke acrose his feld to behold an insziring sight. Fiank upon rank stand the rows of giant young atalks, tossing their listening broad loaves toward the morining sun. If the seed was good, the land fich in hemet nd the seed-bed well prepared, the plants stand ovun-topped, tholigh here and thero a precocioua stalk throws a slight shadow under the arch of to topmost leaves. Wonderfui the growth in a Is there weeks of sunlight
Is there anything prettier than a feld of corn at this stage, with another of dark-green alralife
or clover aftermath beside it? clean these fields look! How rich with promico of returns in milk and meat I Pick out a farm where broad acreages of these crops flourish, and ou will be sure to find a mind with enterprise and vision, and almost certainly you will also learn of a good bank account or, better atill, an mproving farm. There is money in corn, 'but promise and hope. There is beauty in it, ' and promise and hope. Interesting to study ; magThemes for sermons and ; proftable to grow. glory of the Indian corn.

## Increasing Cost of Milk Production

 The increasing cost of millk production is effectually illustrated by a talle of figures precultural College, in. . . Day, of the Ontario Agritable gives ene, in his 1912 annual report. . This as production and profit of each of thirty as well the O. A. C. dairy herd aech of thirty cows in 1911, to Octoter 81st, 1912. November 1st, computation, as Prof. Day explains method of justice to the several cows in all cases, but should work out pretty fairly on the average The cost of feed ranged from $\$ 38.36$ up to $\$ 86.83$ for the renowned 20,000 -pound cow Boutsje Q. Piertert je de Kol, which, with a yield last year of 16,001 Its. milk and 502.95 ms . fat, gave a balance of $\$ 38.91$ between cost of feed and value of butter-fat, this being the largest profit shown by any cow in the herd. The cow which consumed only 838.36 worth of feed ranks fourth in pront. The average value of butter-fat per cow feed, $\$ 56.07$ per iv. was $\$ 67.20$; average cost of $\$ 10.01$ This of skim milk calves, on the one hand, the value other, it leaves aut the labor, as weli as depreciation, interest, risk and incidentals, all together amoung ho about $\$ 30.00$ or $\$ 8.00$ more. Prof. Day explains that a large part of the dairy herd is kept stabled summer and winter, which adds to the cost in their case, especially in 1911-12, whenthey were short of silage and had erable hay. In addition the cost of feedstuffe nything

The Farmer's Advocate AN HOME MAGAZINE. In THE DOEmTIOM
TEEE WILLIABLISHED WEEKLY COMP AM WELD COMPANY (LIMTED) JOHN WELD, MANAGER
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2. It publishot imporg MVOCATB AND HOMCB MAGAZIN













case, wholly avail to attract help in such wages and working conditions offering attractive of labor from the conditions to divert a volume then the effects of gregarious habit, Even by a one-sided system of public-ch, aggravated will operate against the farmer's securing all th help he wants. But this point is aside from the main text. The chief point we are making that high wages stimulate progress in methods A uriter in the "Scottish Farmer" illustrates this fact in the following paragraph: ural methods make pentiful and cheap, agricul parts of the world practices prevall which have scarcely varied for hundreds of years. I have letter from a countrysin the East, and although most of us have Fead the same kind of thing beore, 1 will quote a sentence referring to harvest work which is going on at present :-"The grain
is cut with a liand khife and loaded on cut with a liand knife and loaded on to a donhere to ack, ana then taken to the threshing floor, there to await further progress.' Considering everything, the farmer of this country won't stick scarcer." workmen should get somewhat

## Nature's Diary

To one accustomed to looking down into the
water of lakes and streams the floor of ocean near shore presents a most interesting sight. As we look down into the clear water we see the large brown Sea Cucumbers with their touch one of them with the end of the boat-hook

ing live it will be found that the cost of keep late years. "At has increased very materially Prof, Day, who is never presh prices for feed, says takes a good cow to leave any considerable cost of maintenance, value of her product and the charged maintenance, provided the foods ar charged at market prices.
quarter to the "star-boarder" 'f is-Give no

## Wages and Progress

In matters threatening our pocket-books we are all of us prone to think that what has been should always be. Aiter wheat had been up $t$ it sag back to a dollar seemed like ruin to have yet the decrease in price of who to sixty cents one of the best things that ever happened On system of mixed because it led to a soil-saving system of mixed farming, dairying and nog rais
ing. So with to get all the help they wanted at ten or twelv dollars a month, look aghast at the thought of twenty-five. Considering the former narrow margins of profit they do not see how any can be bably it could not by the old methods. Therein lies the point. The old methods have had to pass. The cradle, the selfarake reaper, the scythe have had to go, or soon will go implements scales of wages have been the prime. Advancing legating them to limbo. Dear labor, ny creating a demand for labor-saving implements, first of all stimulates invention, and then expands fors market for the inventor's creations. Gre changes in farm practice have come about in decade, and others are due. Electricity may be one of the next means of economizing labor in
house and stables. Of course economy cost money, and with regard to the labor situation itself, perhaps the most disat any price. Individual scarcity of efficient help
is the seen in our fresh waters. One of thes side. This species has fish with both eyes on one ming on its side, and become adapted to swimmost is brow, while the lower side is white When the Flounder is very young it swims in the usual fish position, and its eyes are placed as in most fishes, but as it grows older it turns on it ound to the other side. The Flounders are
comes accustomed' to looking for see until ome be resemble the mud in colar and lie partly buried ouches them, or thie mud near them with one oat-hook, they give a flip and shoot off to a conThe iderable distance.
water on our Atlantic conmonly found in oltallow with an imemense head, thus having the a fish ance of a Chinese dragon. The head also bears averal long spines, which add to its ferocious white, and yellow Sculpin is coloned in black.
On the bottom we see Starfish of many kinds,
the common "Five-finger", the common "Five-finger" red, whitish, or greenwhich are the Sun-star with its numeroas rays, richly colored purnle stars. While lool-ing at the likely to witness a sight which will surprise very We shell moving very rapidly over the erise us We may think at first that we have discovored a we soon make out several red legs projecting from the mouth of tho shell. It is a Hermit Crab. Sea Snails, and has become shells of Whelks and as the posterior part of the body is modified, tected by a crustaceous of the body is nJt prois quite soft, and has lost all its appendages erwhich hold the animal ine modified into hooks shell it inhatiits. The front part of the of the protected by a hard covering as in most crabs The first pai- of feet are much larger than the otight font is much larger than thaws. The first sides the usual functions of capturing and and be ing the prev it serves as a lid to close the mouth of the shell. The smaller left claw is shaped to the right one, thus the opening not covared by the right one, thus making a close fit. The which the crab does very rapidly, carrying its ouse on its back. . find a larger thell, and it often tries obliged to fore it finds one to fit. If the desired snell is already occupied by a crảb inferior in strength it procaeds to take possession by violence, It then carefully examines the empty shell $n \vdots i \mathrm{~h}$ it
feelers and legs, and if it crab withdraws, and if it proves satisfact.,ry, the
abdomen from the :ld shell and darts it cuickly into the new one.

## Night Thoughts.

The question is "Wha left the gate open.? Well, I was not the last one through it anyway.
What's that? I would probably have le if I were? O, very well, but I wasn't the last who had to, so there ! Anyway, I was the one who had to get up to chase out the stray horses, anything else I hab a to put on my boots or bid sneeding aw day cobd id by head and hab have tried the Kniepp cure which first time I that middle-aged and elderly which recommends about in their bare feet people should run don't think much of it. But there seemed to be nothing else for me to do. Three smed to be horses had strayed in from the road about big rushing and I was wakened by their wild rushing around the house. The dog was after them and making things lively. They got mixer coop with aose piece of wire fencing, upset a hen coop with a batch of chickens in it, wakened the lawn, and then stopped in the corner of the bright moort and defy the dog. As it was and proceedight I saw that they were strangers my hands and to drive them out. By clapping noise that was yeling I so much increased the started around the house by the dog that they snubbed themselves on the clothes other direction In the the lane and galloped towards and finally hollow and thunderous and the hoof-beats sounded
quickly the quickly that I could understand disappeared so
ghost stories ghost stories in which phantome of the old
appeared in the twinkling of an orses dis-
ment they, were in front of me and the next they seemed to be going faster than mortal horse could possibly go. I stood and waited until
they had turned down the road, and our own horses in the pasture field had galloped to th ence to find out what was the matter. Ther was much pounding of hoofs and whinnying and sorting, but linally everything quieted down

- After getting to bed I worried for a while be cause I had driven the horses out on the road again. There are railroads in every direction,
and as these horses had probably broken out of someone's pasture I should have turned them in to the field with our own horses, so that they
would be safe until morning. If they gut in wruld be safe until morning. If they got in
front of a train and were killed I would reproach myself for being so unneighborly as to dog them out on the road when they were astray. But
they had turned away from the nearest railroad they had turned away from the nearest railroa
and that eased my conscience some and then began to get sleepy and that eased my conscience entirely-and then something began to worry me
in the vague way that things worry in the vague way that things worry one when
half 'asleep. I worried along miserably' for a half asleep. I worried along miserably for a
while and then I wakened up and tried to figuro out just what was the matter. A moment later the dog let out a desolating howl and I. knew what was the matter. The dog was holding a ong-distance conversation with another dog ing about something very mournful for every once in a while he would intersperse his remarks with long howl. People used to say that when a dog cries somebody is going to die and the sound they the superstition. I had hoped he would soon get through with his troubles and tried to cover my ears so that I could'nt hear him. But it was
no use. He seemed bound to tell all his troubles no use. He seemed bound to tell all his troubles dog. The other dog was evidently very sad also. could hear his remarks faintly when our dog was listening, and he seemed to have a lot' to and put a stop to the howling if had to get up any sleep. But though I was provoked I was still curious, so before beginning to scold I took a. look at the dog. He was sitting on his cried he would point his nose straight wip the the sky and let out the grewsome noise. Shakespeare was a true observer, and he usually was, this kind of performance usually takes place haying at the moon,", He speaks again

Than rather be a dog ,and bay the moon

$$
\begin{aligned}
& \text { Than such a Roman."' } \\
& \text { But between one and two o'clock in the }
\end{aligned}
$$

ing in the harvest time when one needs sloep was no time to stop and think, up poetical quotations over a dog's howling. Though I couldn't help felt as budly as his howling seemed to indicate f callerd him to go and "lie down "o and "be quiet!" When I spoke to him he got up and hung his head and actually looked ashamed as if
I had caught lim revealing his private affairs. He probably thought there was no human being listening to him, and he was pouring out his whole heart to his friend in the distance. Anyway he looked so crest-fallen at being inter-
rupted that I suspect it rupted that I suspect it was me he must have
been gossiping about. I wonder if he was telling a sad story of how I treat him, and of how much he has to put up with while living with us. when he doesn't drive half of what is said to him may be hurt somewhat. But if $I$ was to fet any sleep that night I had to interruptithe sad story of his life, and I doubt if he had told half of his troubles to that other dog.

The glimpse I got into the moonlit world afte chances mise mot missin while staying at home. The doctors often re commend a change of scene and we hear much about the good that may be derived from a change of air, and certainly I found the scene
and air different. The buildings, the trees, and
the fer the fields all looked different under the moonlight. I would have to travel a long way to get a more complete change of scene than I got by getting out of bed. As for the air, one doctor
once told me that w. get as complete a change of air every that we get as complete a change vot by going to the mountains or the seaside. wonder if people could not get much of the en-
joyment they are supposed to get from travel by
learnin. around hom'. I have heard people rave aboul sunsets and sunrises they had seople on the mount
tains or on the sunrise was like over their own fields. When
people
every walk and every turn about the place reveals new beauties that they would be place re-
with if they saw them on their travels no one suppose that these remarks are intended discourage travel.
Travel has
hange of scene and a changegh you can get a to be observant at home it is air by learning It suspect once in a while to get a change of peoplo II suspect that meeting the same people all the time and talking about the same things is more sional trip from home anything else. An occaother people who introduce us to new subjects for thought and please us with new stories. am inclined to think that a change of people a change of scene or air. I woader if that than not what the doctors have in moader if that is matic to say so , though they are too diplo-


Shire Mares and Foals Parading at Peterborough, England, Show.
Taxes for Road Improvement. The newspapers recently announced that about sixteen thousand automobile licenses for Ontario had been lissued by the ©rovincial Secretary's Demore to follow. This season, with certainty of and 3,000 licensere are 650 dealers' licensee licenses number 2,500 . All these represent an income of $\$ 85,000$, and the motor fraternity want it ear-marked for purposes of road improvement That idea is in the right direotion, but the license fee ought to be made something worth while. Motor vehicles will have to be heavily taxed to compensate for the injury they cause to the roadds, the fields, and to persons using or living near the highway. An average license of seventy-five dollars a car would yield revenue to the extent of
over a million dollars a year. The license fee


Shire Stallion, Rowington Dray King. First and Champion, Royal Show, Bristol, 1913
should be graded according to horse power, running fram forty to fifty up to, say, a hundred hundred.

## We look for "The Farmer's Advocate". every week, and would not like to be without it. I am week, and would not like to be without it. I am glad to see it fighting for the revision of the Bank Act. It would be a good thing for Parm-

 arm
## T.HE HORSE

A few weeks on grass will do the driver's feet
good. If he can be spared pull off his shoes and
let him have a rest.

During the six months previous to April 80 th,
913, American breeders and importers sold Percherons to Canada

A well-known American Clydesdale breeder gives these as the six essentials of a model draft horsty enduring qualitios ; docility ; constitution and vitality ; action

The same writer says
majority majority of cases is ac, and is frequentily carridd away with
minor side issues such
as colors and as colors and welghts and individual fads,
As an illustration,
may state that a black may state that a black
color is most popular among American farmers, whereas it is the
ooorest of all colors,
and least valuable in the market." (This re
fers to Clydesdales.) Many farm horse hay to keep another of
their kind fairly well You don't like to have twro mear kind pited airry whell. plate at once, neither does the phorse relish two foeds of hay in his rack or manger at onco. such a a pracks more against his appetite than such a practice, an
soon fails in flesh.

Those who claim to know tell us that a hore which works on the pavement, or on hard road hot weather. need so frequent Fhangerses liept shod may not
many horses' feet are ruine thing is sure many horses' feet are ruined by cerrying shot are more easily obtained than moved. Ieet.

How long is it since you have visited thos colts in the back pasture? Have they been there since the 24th of May, or the first of July May, or the first of July,
it only last Sunda,
that you salted $t \mathrm{~h} e \mathrm{~m}$
and looked them over? and looked them over?
Was particular atten-
ion paif to thte Non paid to th'
growth and shape of
their feet? Coltè their feet? Colts' feb do not always grow ex-
actly right. In fact,
very few colts acty right. In fact,
very few colts run
summer without needsummer without need-
ing their feet trimmed
to shape and levelled
 gound, straight truegoing horse when he is
old enough to work.
Aid him to Aid him to grow work.
this kind of animal by giving his foet needed grows

Every authority on horses warns 'against feeding too much hay, fitit the majority oof clined to err. Stuifing hard on his wind, and enerally ascribed
a primary caulse heaves, along wio of
dust in the fed erinarians especially warn against allowing top much hay at noon in hot against allowing too that is inclined to pant. Such a horse, horse
say, should have little but whey say, should have little but water and oate for
his noon feed.

There is nothing better for the farm horse than a run on grass at night. The grass earen
keeps the digestive and secretory system order, the exercise and cool, fresh air constems in in toughens the texture of while the dewy moisture

## LIVE STOCW.

Give the young pigs plenty of "slop" feed.
As they grow suipstitute more solid rations.
As a four-cylinder hindrance and handicap the nrogress of any farmer, there is nothing that can beat a poor cow," says Hoard's Dairyman
most truly. "But that is not the worst of it. There is no other affection and attachment of it. on earth, not even the lave of man for woman, that can equal the clinging adherence of some

In selecting a brood sow it is always worth with a large number of teats. Each pig one rowed at a litter must eventually have a teat of his own from which to nurse, or he dies, or at best is a bad "runt." No class of farm stock clivities regarding prolificacy to a greater ex tent than does the sow.

As summer advances
e taken if posivances into autumn care should graze the pastures down so close the stock to winter protection. Leaving the grass lo leave no much exposed in a cold climate like ours cause injury to them which means a late and compara tively slow growth next spring. Move the stock
from field to field occasionally where practicable and get more and better pasture and leave á bet er winter covering

Choose the breed you have a fancy for, or lik better than any other, but have jalso an economic reason. Choose one which is sure to make cash understand something about the breed and the nore the better. It is also well to be mor familiar with your choice than the young coupl selected Rhode Jsland Red poultry because and was his favorite color, and her father came from Rhode Island. Know why you make a selection

Weeds seem to be encroaching on many of the old pasture fields. They drain on the fertility of to do unlimited injury. Many pastures so as be profitably mowed over to prevent weeds could ing, and a spud could be used to good advantage in many instances. All things considered, work be brought under cultivation, breaking of and re-seeding after the land has been thoroughly worked and cleaned, is most advisable in many results. A better and cleaner stand of grass
differences which to found a flock of sheep study the differences which appear in the teeth of the sheep
according to age. Never buy a "pcording to age. Never buy a ewe which has a large number of her teeth. one which has lost a permanent and temporary incisors is between The 'first pair of permunent incisors is marked. full growth in a a year old, and they attain one on each side of the firsths. A second pair, sheep is about two years old. When the sheep is slightly over three years old a third two appear, and the last or fourth pair come soon anter the sheep is four years of age, a full
mouth b usually formed at five years. As the sheep grows older the teeth show wider and wider apart, and as this goes on the animal has
greater difficulty in greater difficulty in eating. Some ewes have of age, while others do well for eight years longer. While others do well for a few years

## Silage and Corn Stover

 At the Nebraska Experiment Station H. R.Smith conducted tests to determine the relative
value value of silage and shredded cormine the relative (stals)
for cattle feeding. In order to determine the or cattle feeding. In order to determine the to husk the corn from the stalk, and as the cattle were kept in the barn, shredded stover was y reduce the cost, as it can he harvested great shocked as easily as the ears alone can be husted from the stalk and cribbed. During the fall and
Carly winter the use of bundlecorn, containint carly winter the use of bundle-corn, contaning
cars, might prove as profitable as the use of
silare. In sections where enough arass cannot be grown to carry the number of cattle wanted
through the year, but where a large tonnage of the silo will become an important factor acreage in summer as well as in winter.

Notes from Australia. prolongen lactation periods. How long will a cow milk? It is a question Which is being answered in an interesting way in dates for the record-milking stakes. The competition began by the publication of a paragraph
to the effect that a cow a Mre efiect that a cow at Clifton, belonging to a period of six years, starting the long spell with her second calt at four years of agec. Each
spring she brightens up her flow and is soon in the flush again, gradually eesing ofl till the win-
ter is over ter is over. The next claimant for the record
was a cow belonging to $\mathbb{M r}$. M'Shane, of Asel-


Woodend Stamp
Champicn Shorthorn bull, at the Royal She Bristol, Fngland 1913
Glen Innes, N.S.W., farmer got $\boldsymbol{£ 2 , 5 0 0}$ or his at Kooweerup swamp, Vic., a farmer's 22 acres crop was worth $£ 850$. A cob of maize which won the prize at the recent Casino show weighed alfa) grown at Tamworth, N.S.W., Lucerne (alf son up to $£ 8$ per ton. It was in small bale pressed by the bundle press. Mr. Rutler, Canowindra, during a year got 10 cuts of lucerne, another.

The Australian STARD FOR HERD BOOK voring Australian stock-breeding societies entries in books, the entries in these t 0 b e for the show s . The movement, which is ed to the old compar-show-type synstomey dairy cattle, 'is 'be, ing the varion considered by he various societies. discouraging the crose breeding craze for pre

ROTATioi '
YIELDS.
Tests have proved in Nheath Was shothat steady decline in yield where there has been no pell the land as against those sections wherea odder crop has been $\mathrm{g} r$ rown in a rotation.
An official report show that the averas years, whas lyeen going continuously for ten years on the best of the the irst three averaging six signs of cessation, and is still wheat was grown every year was 21 bushels, bure Bishop, of Lime Not, Walmer, N. S. W. puts i. for the last two years the return was less than with claim with a cow which has been milking years gave an Fallowed land for the first three hind the break for eight years, two years be last two years slightly under 20 bushels for the however, she has given birth to five calves during, fodder crops were grown every alternate year the that the arrive surprising part of this case is and for the last two three years was 27 bushels, not made any of the calf on each occasion has use of fertilizers in all thender 22 bushels. The quality of the milk the quantity just before than tq slightly increase


Heather Queen 3rd.
Dairy Shorthorn cow, 2nd at Royal Show. of butter throughout the year Naturally of milk, 41 f hm . of butter throughout the year. Naturally he fornia, has signed an agremerts, of ce ali
refuses io part with the animal. 100,000 eradicate the pear within the-Govern 100,000 acres ii he gets the freehold of years off
when he completes his tand Chen he completes his task. He is to begit SOME BIG RECORDS
A few points as to return and yields and re
cords. At Narre Warren, Vic., apples this have given a yield of $\mathcal{L} 100$ per acre this season three acres oi canning peaches at Bairnsdale, inty- will Carry then use these roads for carts the pear隹 samn state, gave 253 tons of fruit. Between cloars, will destroy the plant to the of which, he belonging to Mr. Kopp, of Peak Hill, N.S.W farms The the areas will be put into given hoduced four lots of twin calves. Seven of also of Califnrnia, who has is Mr. Rassmussen


for stock. But Mr. Roberts' ideas seem to be much ing the next ten years promises to utterly ront
nore feasible. The Queensland Government and the scores of other people have built up hopes about the power which organized labor has held during test has failed and dashed these hopes for tovery round. As the leaves of the cactus contain nuch of it left to turn of water there is no modities. The best laboratories in the world
mave said so. And, as for the fodder value, it have said so. And, as for the fodder value, it
has been proved that the pear which flourishes in has been proved that the pear which flourishes in
Australia is not nearly so nutritious as that which in raised in Texas and other of the United States At the present time there is a board of experts conducting all manner of tests, including the possibility of utilizing the cochineal insect of
India to destroy it. These imported insects are being kept witian bounds for fear that they may develop new tastes in this country and thus add another curse to the many imported ones with which we are burdened.

SHEEEP AND WOOL
The question of tariff reform in America is attracting great attention in Australia. It is
certain that if the rates are reduced on fine cortain that if the rates are reduced on fine country wif go there. There is also great hope that when the Panama canal gets under use the trade in all products between the two countries as well as Canada will be largely increased.

It was thought that the days of high-priced the Bino rams were passed, but in June a ram
Boonoke type was sold for 1,600 the Boonoke type was sold for 1,600 guineas,
Which is as high as any previously paid. This
class of sheer does not belong which is as high as any previously paid. This
class of sheep does not belong to the coddled
type and produces a medium fine-combing wool type and produces a medium fine-combing wool.
They are hardy sheep, well able to weather the
hardshids of the plains. hardshids of the plains.

## An inter-state conference of veterinary surlions should not be permitted to stand for public purposes. This is another step in the reform which was started a few years ago to get rid of unsound sires

The success of the world's record India Runner ducks at the Hawkesbury Ccllege is sure to give
this brued a lift. Six ducks produced ir 12 months 1,601 eggs, or an average of 267 eggs
per bird.

Giving evidence before the Imperial CommisSons, the largest meat exporters in Australia referring to the American Beef Trust, said that the meat supplies of Great Britain came under starvation eventually for the masses would mean in Great Britain. The only way in his people to fight the trusts was the investment of British capital in the oversea Dominions. In Australig.
there was room for endless expansion of the meat
and wool trade

A new Australian record for a horse's high
jump was recently made at Quirindi called Laandlarik, who cleared the bar at a height
farmers Co-operation amonst New Zealand is making tremendous strides. Both Queensiand and Victoria have large co-operative acting as suppliers of goods and requisites for th members. The capital in each case is over company in New Capital of one big co-operative
Zuvs and is $£ 300,000$. It also buvs and sells and exports. An attempt is now being made to corabine the whole of the co-opera-
tive faccories in Australia and New Zealand into united produce on the purpose of selling their
andon market. The Agent-General for Victoria has sounded the Cana-
dian Cominissioner in London as to the chances of joining Australia in establishing a big selling tries being so opposite there would be no clash
ing. Farmers are stirring themselves politically as
they never moved before. The defeat of the o the change in the farming vay is due aggression is toa much forming vote. Labo men on the land more cibecially as threats were made of imposing her are 20 direct farming representatives in the are 26. In West Australia the Farmers' Associa tion ias decided to fight the next state elections
as an distinctive political party ball. he done in the other states also water pro-
Th. increase of land sotter dney, Australia. J. s. DUNNET

A Maritime Sheep Extension Car stirred up much interest in indication of having Sheep Extension Car toured the provinces Nova Scotia and New Brunswick, spending up-
wards of a month in each, starting from Moncton on the 26th of May each, starting from Moncton July. The car was equipped by the Live Stock Branch, Ottawa, under the direction of their Maritime representative, J. A. Telfer, late of exhibited everything pertaining to the induatry carrying several specimens of the different breeds most suitable for the average farmer in the provinces by the sea. With these a short judging course was held, pointing out the proper type to ing this a talk was given upon the care and ating season, much neglect and through the breedthe season, much neglect having been given both most of the farms in the Maritime Provinces The proper care of the fleeces through the winter months, and at the shearing time was also takeen up in the grease, and abandon the old system tub-washing their fleeces. A strong plea was made for flock owners to try the dipping of their
flocks to rid the sheep of all parasites. losses are heavy in the provinces from the ravages of these pests. To better illustrate the
dipping operation, a full-sized dipping tank could be seen in the car, as also a small model of dip ping tank and dripping pen. A well-arranged


Unique Tandem.
hibit of the different fleeces, and many differen samples of wool could also be seen in the car, wool, while, at one end of the car, the process o back to the finished article was display sheep's sils of all kinds needful for the flock-master were n hand, as well as charts on all phases of the industry. Much interest was displayed wherever the car stopped, and many expressed their inten
tion of entering upon the industry, which number of decades, has suffered a severe loss in these provinces.

When the Calves are Weaned The time of year is arriving when the calves milk has been replaced by skim milk, and, after four months or so on this latter feed, the calf is Yery often he is turned away to grass with the older cattle, and gets no more attention. Hot miasummer or a little later, when the pascontinued action of the of theing succulency by the frequent falls of rain, is one of the worst times in which to put the calves in a far-off field already grazed bare by older cattle. They require
more attention just after than just before weaning. Where a bunch of calves are ready to weana good place to put them is on a field wanon which the grass had grown up afresh after the
removal of a crop of hay. If at ail possible leep removal of a crop of hay. If at ail possible the
them separate from the older cattle. Flies re them separate from the older cattle. Flies re-
tard greatly the progress of growth in young
keep them inside during the day, letting them out at night. This allows an opportunity to give them a little chop once or opportunity to give them over the trying period, and at night clover, alfalfa, corn or roots may be used to good advantage. No more profitable work can be done
than giving calves good care.

## THE FARM.

## Build a Silo.

Editor of "The Farmer's Advocate"
With hay less than half a crop in Ontario and affalifa largely kined out, and prospects average crop of corn it is of the greatest importhe that the cultivator should be kept going in the corn fields, not only to kill the weeds, but
to conserve the moisture and thereby to conserve the moisture and thereby develop the
very best corn crop possible. more required than it is to-day, as practically all grain crops are below the average in quantity of ing to be a bumper one, what are corn crop is going to be a bumper one, what are we.going to do
with it? Are we going to follow the old and stook the crop in the field and then have to chop the stooks out of the ice and frozen ground crows, turkeys, ctc., have secured the mice, rats, our live stock will have to be satisfled with and stalks which are, to say the least about them, largely woody fibre? To anyone who is planning such a practice, let me say, don't do it, but erect one, a silo large enough tor build an expensive viz., 12 ft . in diameter, and 28 ft . to 85 ft . high and the silage will bom $\$ 85$ to $\$ 800$ or even more, and the silage will be Just as +good feed from the cheap as from the
more expensive strucmore expensive struc
ture. The fdeat which many of the most progressive dairymen are now practising is having
two silos, one f a i $r$ two silos, one f ali
sized one for wince feoding, and a smaller
one for su mime feading, an wherever you find
this practiced, har times are a thing of
the past. the past. The man
who provides silage to provides silage such a long, dry apel enced $t$ h is summer,
(and, in fuct, is ex
perienced perienced more or
less every summer)
certainly her certainly $h$ a/s $t h$
laugh on his neighbo whose cows are al
most dry, and who it ain xi o u sly looking
sikyward for signo of
rain, hoping to hat rain, hoping to have
his pastures refresh
ed. What ed. What applies a over a dairy hcrd is equally good for the beefing
herd. To anyone who intends to put up a stave herd. To anyone who intends to put up a stave chances of your say by all means roof it. The are greatly lessened by being bound to the wind a roof. Of course, the cement silo, although con siderably more costly, has the advantage ove the wooden silo in that it will neither blow down nor burn down, and if well plastered both inside Now, having the silo built, the next question in what condition should the corn be to make the teen years' teen years experience with the silo, I am thor
oughly convinced that to make sweet palatable food, corn should be matured sufficiently for husking, or, if for any reason this is impossible,
would prefer to have put it into the silo in such frosted rather than the sap would squeeze out and run away around the foot of the silo, leaving pickled corn silage instead of preserved corn silage. I believe fully discarded can be traced where the silo has been tice of putting corn into the silo too green. might go further and say that I helieve a slight haps it is a dancerous practice silage, but persnme mioht be inclined to freeze to advocate out of the cort. In order to have the silage free from mold, it
is very important to have it thorouchly Whero mimes are not used on the inside of the silo it it reauires three directly to where you want
it. inds to keen it all
well mixed and tramped
blower carries the leaves inta bunches and if they
are not constantly scattered there are sure to be some moldy spots in the silag
prejudiced against still a great many who are anknow ledged that corn is one of our cheapest crops to grow when quantity and quality are both
considered. We must all admit the February 1st the silo is admit that after abou of preserving the corn for future use, when it wil keep for years without any appreciable deterior osed to the air. Don't neglect to build silos.
maller ones, thinking one in prefereave to two large one during the summer. surface exposed to the air, and it will ferment aster than you can use it
Don't make the mistake
and 9 . Twelve feet in diameter for enough for the average a summer silo is large Middlesex Co., Ont. $\qquad$ R. H. HARDING Note.-This is an excellent article, but we have to dissent from the advice against building one large silo. Last summer we fed twenty cattle feet of silage in a 14 ft . x 40 ft . cement silo, built two and a halif feet under ground. The silage came out in excellent condition, and was filage with every satisfaction and profit. We advocate
one good deep silo for the majority of cases.-
Bditor:]

## Ridding a Farm of Thistles

 vorst weeds, it becomes serious whe one ou farm is overrun with it. Two years ago, the property which comprises the major part of Weld member ever having seen a whole do not re with thistles. having seen a whole farm so bad dance, including the woodlot. The in abunthe straw stack appeared to be the remnant of thistle stalks and thistle down. The onethird orner made light of thistles, explaining that he always shocked his grain with a fork. We weresince told that when offered sheaves of grain by a neighbor the extra-thistly son, he had jocularly reighbor the previous seawell take them, for they were as good as any of wis own. Of course, these thistles, thick any the eighteen acres of bindwsed that we wared to the
been fighting. Still they we since been fighting. Still they were a nuisance and an eyo-sore, not to be tolerated on any wefl-managed So, without going to very much extra expense ours. account of the thistles, we went after them pretty horoughly, and have already succeeded in reduc grain fields this year have scarcely any thistle ops showing above the heads, though in onstle feld there will be a good many stalks under the The field was in corn last year what once was Cairly clean until the middle of July, when inessant rain prevented further scutfling. when in cre strip on one side, which missed the last three times as bad with thistles in the fall as the other part, showing what one extra culltivation The plan of campaign often accomplish. In the meadows and grain fields, and to exterminate the root stocks, one fleld at a time extermincrop, the hoe crop being followed by, writh hoe (red clover, 8 its.; alsike, 2 lhs. timothy ins seed 6 lbs.) We always aim to cut all our hay, 5 or any of the thistles go to sced, usually before they
are in bloom. This against many other weeds as well. The effective mowing given alfalfa and clover fields effectuent
suludues Canada 'thistle. subdues Canada thistle. Fence fottoms, waste places, and pastures we endeavor to run over
with scythe or mower, preferably when the For cultivating the hoe crop we rely chief upon the wide sweeps or weed cutters, which may two-row cultivator we walking scuffler or riding squares with the check-row plant our corn in six or elght cultivations, commencing soon after the first time through. With the ridinaps, for vator we sometimes cover two the riding culti-
straddling each alternate an hour if straddling every row. After the corn one acre
four feet high the single scufflor tore aim to get through the corn once with and ones missed in the mid spaces. By this and odtr corn field may be left as clean as a whistle when
the crop is removed, and few thistles will come
in the ensuing crop In "TOPPING" THISTLles in grain. is the best practice. Spudding is slower and less
effective, for it is practicable only when the grain
is small, and two or three thistles will come where each one has been spudded out. will come is done just before the grain coinmences to head the blossom head is cut oft it will be and it the grain will soon shoot up past it , and if any chistle seed is produced at all before the grain is cut it will be down below the level of the grain have had one man top twenty acres far. We thistly grain in either two or two and of pretty days, we do not remember which it was. He did
a good job, too. a good job, too.
in fighting thistles during the two and and and thed seasons we have been on the place, because it has
been incidental to been incidental to the production of each particu-
lar crop, but we should judge that dollars would cover all the extra expense hundred in fighting this weed. The farm is now comparatively clean, the grain fields are a picture, and,
while we expect to have a few thistles for some
time to concern. come, they no longer give any serious plan of hoeing them comed with the old-fashioned had to do when boys), the modern practice has

Down on the Farm When Pa, he gets just awful cross
And quiet, and won't And says he cannot sleep at night,
We know its "We know its time for Ma to say You's better take a holiday.
Don't worry so ust pack your grip and get bway, Jowt pack your grip and get away
Down on the farm at Uncle Will's. Then Pa, he says "Coodbye" and goos,
And spends, well, say a week Out in the air and eats and sleeps,
And works just like And Works just like he used to do I guess $I^{\prime}$ ' cife weared af all rosy hue,
There's nothing ills ; There's nothing in this world can, beat
Down on the farm at Uncle Will s, s," When Ma gets peaked and loses weight, And doess't greet me, with a smile And sighs just every little while at night, Then Pa, he gets a "woe bit"" "war That Ma is going to be ill. scared He says, "Come, MOther, take a rest
Down on the farm Then Ma , the farm at Uncle Will's.' Seems diflerent ; things all the house Tho' Pa, well, he's just awful won't go right And takes mo out most every night And Ma writes home "'I'm getting strong, Or tabloids, or that kind of thing, Is life down here at Uncle Will's. And then it comes my turn at last, Bouf huntin talk about vacation, Bout hunting, fishing, camping out,
You'll hear the name of every station You'll hear the name of every station,
And Pa, he says "Which is it, son? Just take your choice, seaside or hills, And then I say, "Well, me choice, or hills,
Is on the farm at Uncle wisl, drive the horses, And help until the harvest's through, And eat and drink, and play and work,
Wein, just about encugh for two.
My folks,
 ogo and spend a holiday
Down on the farm at Uncle wills Ottawa, Ont. L.ILIAN RUTH MILNER

Weed Seeds Broadcast
Kiecently hearinger's Advocate", some comments on the public highways, of the roadsides along unof the statement and regrer struck with the truth
country is being mat our beautiful tions, yet when one considers the lack of incting condi-
displaved displayed by the maiority of farmers
gard to the extermination reborderingy their farms but of wroeds (not alone
and grain) the wonder is more unsimht1, wonder is our roadways are not
atically fights. thout one farmer in ten svatem aticaly fights the weed nuisance, keeningstem-
fields clear of thistles, docks and other
species. species. Real Rizingt that docks and other common
can master the situr vicilance only prohahly one's situation, how discouracing when Tion: what seems to be the ween eradica-

 have painstakingly mastered them on their who
farms the far.
In this way
culties in presenting an attractive farm and ro ay multiplied. More attention farm and road small patches of weeds when starting would pre Such disregard of the dengers fro which are carried by the wind is a sore triaeds any who are earnestly striving to keep in sub and even persuasion have pests, and as example effectual method should be adopted some more would be compelled to do his part toward this end, thereby presenting cleaner farms and farm
surroundings, Lambting C

ELSPETH WLLSON.

## HORTICULTURE

Spraying Potatoes for Blight and Rot.
Will you please let me know through cure there is what I should spray, or what rot, in potar the black streaks, or $a_{0}$ kind of stem end, and I her hat at the last two years. Do you low whe iety of potatoes has anything wher I have three. Early harvest to do with it? Warrior has not any, Empire State wos Davies all diseased. nearly Some varieties of potatoes are more liable than others to blights and rots. The form potato rot that is associated with late - $^{-1}$ way be usually controlled by thorough spraying which pays exceedingly well by keeping the foliage reasing the yind late into the season, thus inhot prevalent. In some in seasons when rot is in New York State, the yield was increased bushels per acre for an average of seven years arliest hatching to spray early-just as soon as th beetle, or when the plants args of the Colorado high. Keep the leaves well are about five inches deaux, using a poison with it in each with Bor that, keep using Boyed, but no longer. After If the weather is wet at anx, but without poison of July up to the end of the from the 25th wake extra precautions to see that the foliage ret a start. with Bordeaux, lest the late blight than three sprayings, season should there be fewer should be from six to eight. most seasons there five pounds strength of $5-5-40$ (five pounds lime, stead of the green or three pounds arsenate pound of Paris enough as a poison for a forty-gallon barrel Bordeaux. Detailed instructions for preparing Bordeaux mixiure have often been published in connection with the spray and may be found in of March $27 \mathrm{th}, 1913$. in this respect: it must is unlike spraying for bugs
be done before signs and and should mav be poisoned : the blight fungus nuust be pre-
vented from

## Refrigerator Cars for Fruit to Montreal (export).

Agriculture, the Grand Trunk System has under Agriculture, the Grand Trunk System has under-
taken, during the period August 1st, 1913, inclusive, to furnish, when to October refrigerator cars for transporting to Montreal
shipments of fruit Shippers desiring cars under will make a written application this arrangement of ice to be placed in cars before loading, and it cars are to be re-iced in transit, the quantity o
ice to be supplied in each instance
icing in icing in transit will each instance. The cost of When refrigerator cars are ordered, and it is the agent will to furnish ice at shipping station,
Superintendent notify the Trainm Superintendent, who will arrange to have the cost of same will be wavbilled to point, and the
which the cars are to tations at must lye wayhilled (not exeeeding $\$ 5.00$ per car) cost of icing exceeds property, but when the total figure must lie paid by shipper, as same canno A similar arrang on ocean billo-fl-land cang. It has now been in force for several vears. C.P.R Ippartment pays icing charges to the extent of
ive dollars per car on carloads of en

THE FARMER'S ADVOCATE

Good Ontario Apples Wanted in the West.
Dditor "The Farmer's Advocate," "Why don't you send us fruit rike th
ever see that kind of apples out here." Such was the remark we heard from numerous peopie who passed the West, and saw the Ontario Canada' ment display of fruit, butter and cheese, and
honey. And because the complaint was so genhoney. And because the complaint was so gen-
eral and was made so earnestly, we could come o no other conclusion but that something was wrong. with the Ontario apple trade.
The West is peopled wifh
The West is peopled with folks from Ontario-
folks who know a good apple when they see it Many a Huron and Bruce apple when they see it. of the car, exclaiming, "This smells like On-
tario." It can be truthully said that the West ario. It can be truthrully said that the West
knows ontarioo apples, and if they could get them the people would buy fruit from this province in States apples. The market belongs to (o) Ontario We but send the right kind of goods.
The difficulty seems to perience with dishonestly packed barrels from ex-tario-apples marked No 1 , and retailing for
$\$ 6.00$ a larrel so that at the present time fruit cannot be sold unless the purchaser can see prac
tically every fruit in the package Columbia and the West have been auick tritish advantage of this fact, and peactically all oll of
their stuflit is packed in boxes. These boxes are merked with the grade in boxes. These boxes are the box, so that the purchaser knows apples in
what he is getting for his money. With Onty
Wontio ruit he has been fooled once too often. This dishonest packing may not have been as general
as we tave been led to believe, but the result
has beeni the same as if it had beot mount of dishonesty can destroy the whall trade. The ract remains that Ontayrio does not
hold the market at the present time. One must visit the west and hear the heartelt conmments of the people, and their phea for
Ontario fruit to realise the seriousness of such nistakes, even from a business standpoint. ruit in the serious drawback in placing Ontario dealers through whose hands the fruit passes beuys from a dealersumer. A dealer in Calgary dealer in Winnipeg; the Winnipeg dealer buys from the Toronto dealer ; the Toronto dealer the producer. The consumer thers his fruit from men from the producer; which protlaking consumer pays a large price for his fruit. the of the main objects of the exhibit was to put the ducer in Ontario, through curch with the proproducing association. Many cormmunities in
the West are organized int the West are organized into associations of one
kind or another, and through these fruit may ho kind or another, and through these fruit may be
bought direct from apple associations in Ontario. ought direct from apple associations in ontario.
In districts where there are no organizations in
the West the West, the people, by clubbing their orders,
can have their dealer buy direct. can have their dealer buy direct. In this simple
manner the consumer in the West may buy Ontario quality at ontario prices. . may buy on trip was tharding feature brought out by the apples. A large number of thossod passing through
the car were firm in the telief that the quality of Ontario fruit was much better than mistake of a por pack all the more glaring, and
explains our beiep that Ontario could hold the
market if she but sent the It is essential at this time also that the operative associations be very careful of the pack
gent West. $I$ found one Farmers ${ }^{\text {In }}$ Union in
Alberta Aberta which had obtained a carload of apples
from an Ontario association. Some of the apples in this carload were quite sat isfactory,
but one or two of the varieties caused serious Carmers' Union was thecomparticular instance the this kind is not satisfactory, and could do an im-
mense amount of harm to our co-operative pack-
ing association Yam glad to say that in the whole trip the
above is the one occasion where dissatisfaction
was expressed was expressed, and as the mistake was remedied,
it could not have been intentional. Mistakes
will happen tealing will happen. Dealings with our Co-operative As
sociation have been uniformly satisfactory
In the large citios of the weat fhe
 large proportion of our fruit could be sent in
larrels, especially where apples are bought
through the ariong
 just where the purchaser has proper storage, it
would rathectory
In the
rities the consume Ontario has good apples. The West knows
that, and wants them. If we sent nothing but the best, Western Canada would eat every good
apple grown in Ontario, and would eat no other
Waterloo Co Ont

## An Illustration Orchard.

In the year 1904 in glancing through a In the year 1904 in glancing through a governnotice a paragraph regarding the setting out of illustration orchards in New Brunswick. I had been intending to start an orchard for some time The conditions of inved fruit on my farm at all. as follows :-The Govering out these orchards were trees free, and send a man to furnish the the owner of the land was to care for out, and according to their directions for ten the trees havely all the proceeds of the orchard. I immedchey at once notified me to prepare the ground by flowing and liberal manuring, and they would set me out an acre the following spring. On May 9th, 1905, an experienced man was sent from the department of agricuture with fifty trees of the best krown varieties, adapted to New Brunswick, namely, Duchess, Fameuse, Wealthy, Arctic, Stark,
Wolfe Milwaukee, Yellow Transpaxter, McIntosh Red, North Western Greenino and Starmpin Sweet, and one crab tree, Martha. We mensured David, ground, arranging to set the trees thirty foet drove a stake then the holes tree was to go we each tree was set the roots were dug, and as med, being careful to cut off all dead or broken
roots. lie in their natural were large, so the roots would The tree placed in the hole and hot be crowded. one man while the other filled in the dirit by ting the surface soil in first, and lhastly that putz
from the bottom of the hole. When alo water poured around each tree in and a pall of particles of earth in among the roose the small thoroughly dampen the roots so that they mould start growing more quickly.' After the water had
soaked soaked into the soil the loose earth was then
drawn in around the the to prevent the wet earth from baking mulch and had. been dug deep enough so that the trees mere planted an inch deeper than they had been tree set just right, so they would to got bvery three ways in looking at then from the corner
tree, that would be along each side and centre. When they werr first ose out $I$ folt the
tain they were too far apart, taling up too much ground, but I soon found it was none too much
As the treas As the trees grow it gives plenty of room
work and thorough cult the success of the trees. Many men to this to make the mistake of setting their young trees closer, but for my part I I would rather havetimes
orchard set. forty feat apart an same spriug my orchard wart than twenty. The planted, I sowed it
in buckwheat around each one leaving about three feet week with a potato, digger until the dirg up every
when I sowed anl when I sowed a little clover around them as the horticulturist directed. This was to slightly re-
tard the growth of the trees in order might ripen up for the coming winter that the winter-kill, and the following spring in plowing
the ground again the clover is turned under thus enriching the soil for the growing trees again.
No spraying was done the first ting kopt watch for the army worm two years, but insect which might attack them and picked them comes I veneer wrappings and hill them up palightily, this
heips to face water from lying near the trees as the ground is very flat. The paper and the hilling up
also prevents the mice from destron also prevents the mice from destroying the trees and keeps the sap from starting in the warm
days in March and April, which $1 /$ often follower by a cold snap freezing the under branches, kill ing them, and causing sun-seald. After the
warm weather really set in which warm weather really set in, which is usually the
first of May, I remove the wrappings pally manure the ground and prepare it for any crop
After the first year to the present time I culti-
vate a strip each side of each row of the Your feet wide, cultivating weekly of tril July 1st cover crop, whichever the Government there late years since the soill is igent sends me,
thang richer
make very rank growth, collects, and holds the snow ahout the roots of the trees, and is then Mlowed under the spring following. I never use had practice to allow stock' to run in the or-
bhard. Knapsack spraying, the first four years I used the
very handy in spraying, the small trees with. made excellent growth, and nearly ail bearing heavily, the Government and nearly all bearing rel sprayer with hose and rod attachment with double nozzle so that I can spray the large, high yreas more easily and quickly. The past two years they have aliso furnished the spray mixture,
all ready to be diluted to the necessary strength, and in place of Bordeaux and Paris Green, lime sulphur with arsenate of lead is used, which I apply as follows: First application, one gallon
limesulphr solution to eight gallons of water, lime-sulphhr solution to eight gallons of water,
applied just before groveth starts. This is for aphids, and alse intended as a cleansing to the bark of the trecs. Second application, just before
blossoms open: One gallon Iimesiluhure to blossoms open: One gallon lime-sulphur to 40
gallons water, and
two-and-a-half pounds of gallons water, and two-and-a-half pounds of
arsenate of lead, this is for the bud-moth and any leaf-ating insect, Third application, immediately after blossoms fall, and before the calycees close or (more plainly speaking, before the little
apples turn dorn), this application is used same apples turn down), this application is used same
strength as second, and is for the codling moth.

Should a fourth application be necessary it is
Died two weeks later, a little stronger if neces. applied two weeks later, a little stronger if neces-
sary. The fourth spray is scarcely necessary it first three have been applied in good shape, and at the proper time. I always try to spray thor-
oughly, and have, I think, learned what spray is applied for, it is a poor plan to start out to spray and not know what you are going
to spray your trees for, but, of course, that be learned. In spraving to make a thorough lab as soon as the trees dry after it is applied and the lime shows up while on the trees, if I see again, while I have my spraver II go over theee is very seldom I have to give the fourth spraying

If any reader intends setting out an orchara by all means care for it in every particutar and it will not, only be a beauty spot on your farm,
but will add greatly to its value, and soon + , ward you with plenty of easily-arned cash. it to sare for itself is not only money thrown away but is an unsightly spot on your farm.
My arst exhibit of apples was at the st apple show in 1.911, and I got second prizo for best eollection, which I thought very good for a
beginner, considering the fact that Nova scotie, the leading apple province, also exhbibited at the same show. Only a few trees in my orchard dited Government, who also at different times added others, until my orchard now contains sixty-Avo This
This Hrustration orchard, as well as othors in fruit growers. The supervision of thene orchandid Or several years past has been under A. G. Tur-
ner, Horticulturist, Frodericton Now Arum and by the satisfactory returns and the good appearance of these orchards testifes to that oth the illustration knowledge nstration work.

## San Jose Scale in Western Ontario

 Editor of "The Farmer's AdvocateIn roply to your inquiry letter regarding the my tour of inspection I will as revealed by ound it in the following places : The townatip There Ma in Middlesex is generally infested. London also a small area at Byron, just west of
The southern part of Lambton is more or less Infested, and there are also one or two cases in In the vicinnty of Tillsonburg, in Norfolk
county, there are several orchards thet are county, there are several orchards that are very
badly infested. badly infested.
There is a small area near Woodstock, and one at Beachville in Oxford county.
I. also found it near Burlington in Halton and
Wentworth counties. I have not bean
so am not in a position to say anything regard ing the country east of here.

You are donbtless aware that, the western half
Uilgin county and the counties of Kent and Nortolk are generally infested.

In the New England States fruit crops gene ally are said to be suffering from ap lack of
The prospect is apples in carefully prosprayect is for a fair crop or gpraved orchards will have little salable fruit.
In Western Ners York In Western New York state the apple crop, whille a little less than 1912, 18 expected to be good
A heavy windstorm on July 18th had done great

## THE DAIRY.

Fast milking is not necessarily good milking, though as a general rule a fast milker will do
better wark than a slow one.

Aularly in the repellant or flable will return from tes red twenty dollars for each dollar invested in mater-
ial.

What doth it profit a dairyman to toil hard all unless these be of the kind to cash for his cows at a price which leaves a decent margin over
cost of production? Marketing is a great problem, and it begins with the cow.

What we must have in dairying, before satiscontent" wrogress can be made, is a " sublime dis year at a total cost of sixty to neep a cow a
What have you to show for that money? What is the value of her milk, manare, and five-days-
old calf? There is need for

Why the Cream Test Varies The majority of creamery patrons are puzzled
at times over variations in the test of their
cream as reported by tine company receiving it cream as reported by tie company receiving it.
Often dishonesty is unjustly imputed. In her
book, "Farm Dairying book, "FFarm Dairying,", Miss Laura Rose her dis-
cussed this point, enumerating the cussed this point, enumerating the following in
Cuences which may cause cream tests to vary from dey to duy

1. Speed of the bowl. Slow turning gives the skim-milk. 2. Amount of wator or skim-milk used to
flush the bowl in proportion to the amount of 8. Amount of milk in the supply can : the less
milk, the richer the cream. 4. Partial elosing of th
2. Ologging or imperfest 11 nning if tho
cream and skim-milk outlets.
3. 6. Temperature of the milk when separated milk separated : the richer the milk in fat, the richer the crean
Very aiten w
and whon the when the cows freshen in the spring change is made in the adjustment of the creap screw. Usually, the fresher the cows in milk
and the heavier the frem of fat; and so the necessity for the percentage screw, so as to have less skim-milk in the creame
To this might be factors cause might be added the fact that various factors cause the average test of milk from a
hard to vary on different days, thus modifying

## Some

The frequent fajlure of the Weather Bureau advance to be serviceable to the farmer, or with
sufficient particularity sufficient particularity as to hour and or with
compels him often to fall back upon and folk lore. It is encouraging to find in the 1912 United States Year Book of Agriculture basis of scientific fact signs and sayings have a quoting an article on the subject by warranted in ohreys, Ph. D., Professor of Meteorological Physics, United States Weather Bureau.
with can be argued, of course, and apparently now have any practical use, since nearly ever forecasts, for a national weather service whose liably based upon the known immediately preious conditions all over a continent-conditions day; that are minutely recorded and carefully It is true that when one is supplied with such
information his horizon becomes world-wide. he sees the weather as it is everywhere; knows how fast, and that the storms are moving and approximate weather conditions for a day o
more ahead. But in general it is not practicable officially to forecast for definite hours nor ing, tnen, of hour-to-hour and village-to-village rely upon his own interpretation of the signs
before him. Besides, in many places it is impossithe to get, in time for use, pither it in official
forecast or the weather map upon which to base Torecast or the weather map upon which to base
the cream test as explained above. Sometimes this occurs without the reason. being easily ascer-
tainable. Official testers find cows testing as low as one per cent. at one time, and much higher at another. A flush in the flow is very, liable to be "Dogging" cows a decrease in the percentage test. whiderably, as will poor or indifflerent finilking, in the udder. Any of or all these liactors may ente into the case. Be sure of your'facts before enter dulging suspicions of unfair dacting. If in-
doubt have occasional tests made by a disinter ested party.

## FARM BULLETIN.

## Weldwood Notes.

Haying was finished at Weldwood July 22nd,
the last piece being five acres of pasture not heen closely eaten down of pasture that had five acres on the eighteenth, taking from forty65 tons of cured we estimate will feed out about and barley promise a satisfactory yield oats twentyreight acres of corn run from fair to and good. Tweive acres of bindweed-infested summer ack of manure stubble is only fair owing to of spring-plowed sod, which was the sixteen acres with the spreader before plowing, promises very heavy crop. Nearly all the seed corn was about four stalks to the is excellent, averaging and beans, we have the hill. Including roots of it reasonably clean and thrifty, except, most mangels, the seed of which did not prove very good, though sugar-beet seed from the same
source was all right. An O.A.C. No. 72 oats on spring-plowed clover is from five to five and a half feet tall. The
general oat crop, however, comes short of that.

The Crop in York and Ontario Counties.
South Onfario and South York are producing The season has been somewhat late, considered. it looked as though the hay crop would be a is now being harvested has been an average one, running about a good load and one-half to the so coarse as it sometimes is, and the ideal get it harvested without getting aild farmers to rain. At present writing, July 23rd, there is still a timothy is ripening up rapidly, although the weather of late has helped to hold it back. The
acreage of hay increases in theol
the labor supply decreases and hundreds of ton will surely be sold/ from this section this fall and winter, as reports from many other districts indicate a very short crop, and it is more than likely that profitable prices will prevail for first
quality hay during the winter of $1913-14$.
There is a considerable acreage of alsike grown the hot weather during the latter part profusely interfered materially with its filling, and the see is reported in many cases as being shrrnken and mall.
Early barley harvest and the cutting of a few
fields of winter wheat have commenced. The
wheat crop seems to be up to the average. Wheat crop seems to be up to the average.
Much of the barley is rather short, but is fairly
well headed, and is well headed, and is likely to give a fair yield to the straw. The oat crop is late, many
fields showing no signs of change of color as fet, and some are not fully headed out. as straw is short, but they are well headed and if a few rains come soon the yield should be nearly ap to the average,
oat crop is the difference in connection with the and crop is the difference between the early-sown good indeed, while many of the latter are very appointing in the extreme. This just bears out wha The Farmer's Advocate" has always urged upon The crop on wet land has also suffered, nut only from late sowing, but also from the land running together badly after being sown. While this section has very good natural drainage and dreds of acres which would be greatly still hun by underdraining.
All hoed crops are doing well. Some fields of corn are past cultivating already. Mangels seem
to be growing well, and most of the turnips been thinned a:rd are getting a good start have Pastures are much better a good start. parts of the Province, and live stazk of all kinds are looking fine. There is a great scarcity of calves. Many people have ceased to milk cows
owing to the scarcity of labor and ane calves, or going into the production of baby beef, but great dificulty is experienced in Drocuring calves to put on the cows. Pigs have proved very profitable, and many farmers are making a
specialty of pork production. Perhaps as many shom Perhaps as many sheep are bred in this sec-
tion as in any other district of equal size in the Dominion, and still many farms have not a fleece Ontari Ontario county is a good apple section, but the crop does not promise large, perhaps 50 per and raspberries are not a full crop. Cherries were very abundant, but found a ready market at $\$ 1$ per basket. Plums are a shy set, but are grown for home consumption only. If nothing have harvested a very good all-round crop ere the

## Useful Weather Proverbs.



Fruit will grow.
still another form :
Or, in still another form :
A year of snow, a year of plenty
That these and similar statements commonly less continuous covering the fact that a more or old winter, not onving of snow, incident to a ing frosts till after the probable season of kill ing frosts, but also prevents that alternate thawwinter grains. In short, as to wheat and other

A late spring never deceives.
Actically the same thing as the one meaning justified by substantially the same fact-that is likely to be injured hy laty growth of vegetation is y the following exa later freezes-is illustrated
the following examples
y , the Lord have mercy
It you see grass in January,
Lock your grain in your gran
January blossoms fill no man's cellar
January and February
Do fill or einnty
with seasonal forecasts, of other proverbs dealing ing to such classes as the ahoxeept those belong little to justify them. Many are purely fanciful While THE SUN.
While proveribs concernin.

## Areds of tons this fall and districts inis more tha alsike grow ned profusel ned profusel art of Jur and the see ing. of a the aver but is fa a lair yi late, ma d out. ion with th e early-sown or are very er are dis. ars out wh urged upp arly seedin arly seedin While 'this ainage and ais re still hun- tly benefited <br> Iangels seem turnip start. some other of all kinds scarcity milk are rearing brocuring ave proved in this sec size in the not a fleed Cherries market set, but are If nothing

those that concern the immediate future-the next fow hours, or, at most, the coming day or twoobservation and correct reasoning. Among these perhaps the best are those that have to do with
the colon of the sky and the appearances the colon of the sky and the appearances of the
sun, the moon, and the stars, for we see the first because 'of our atmosphere and the others through it, and therefore any change in their appearances necessarily means changes in the atmosphere it type of weather. A familiar proverb of this class runs as follows.
we water in his eye.
a great quantity of dust--st favors a red sun particularly good-in a damp particles are Smoke alone in sufficient quantity atmosphere. this effect, but it is intensified by the presence of colars, as we call them, of sunlight wave-length scattered and absorbed to a greater extent by a tances, amount of dust or other sub stances, such as water vapor, than is
the red and this eflect becomes more pro-
nounced as the particles coalesce. Hence when nounoed as the particles coalesce. Hence when the atmosphere is heavily charged with dust par-
ticles that have become moisture-laden we see the sun as a fiery red ball. We know, too, that this dust has much to do with rainfall, for, as Aitken, cloud part'cles years ago by the physicist ot, under ordinary conditions fore rain, will fectly dust-free atmosphere, but will readily form about dust motes of any kind in an atmosphere A red
commonly indicates the that is, dust and moisture; and while the above is not the whole story, either of the meteorological of rain it is sufficient in the air, or of formation the proverb under consideration really is. And also this other one, that says

If red the sun begin his race,
Be sure the rain will fall apace
SKY COLORS
There are many proverbs, ranging from the
ood and useful to the misleading land absurd concerning the calor of the sky at sunrise and sunset. F
A red morn that ever yet betokened
Wreck to the seamen, tempest to the field Sorrow to the shepherds, woe unto the bir Gust and foul laws to herdsmen and to herds Droverb jinglese stately verses, there are many
same idea. express substantially the same idea. One of them puts it thus

Sky red in the morning
Is a sailor's sure warning
Sky red at night
Is the sailor's delight.
But in many ways the most interesting of all and red sunset is the one which, according Matthew, Christ used in answer to the Pharisees show thim a sign from heaven. He answered and said unto them : When it is
evening, ye say, It will be fair weather : for the
sky is red.
And in the morning, It will be foul weather
to day: for the sky is red and lowering. It will be naticed that an evening red is here of weather from that indicated by a morning red. This, however, is only an apparent contradiction, for the origin of the red is not the samphysical difference, while well known, is too long to include here. If the evening sky, not far up, but near the western horizon, is. Jellow, greenish, or some is the chance for clear weather, for these colors indicate even less condensation and therefore a dryer air than does red. Hence we can accept
the following lines from Shakespeare as the expression of a general truth

The weary sun hath made a golden set,
And by the bright track of his fiery ca
If, however, the evening sky has none of these
colors, but is aver-cast with a uniform gray, then we know that numerous water droplets ar present, and that the dust particles, in spite o
the heat they absorbed from sunshine, have be come loaded with much moisture. Obviously
then then, to produce this effect the atmosphere, at
considerable elevations, must be practically
saturated saturated, a condition tha
justifies the familiar proverb :

If the sun set in gray
The next will be a rainy day
If the sun goes pale to bed

Additional good examples of weather proverbs
based on sky colors are as follows : Mvening gray and morning, An evening gray and a morning red Evening red and morning gray Evening red and morning gray
Help the traveller on his way Help the traveller on his way Evening gray and morning red
Bring down the rain upon his heed.

CORONAS AND HALOS
Many proverbs foretelling rain and bad weather halos and coronas, and as these form and lunar there is much moisture in the air and some when densation, the proverbs of this class are well
founded. founded.
that encircle any bright object when seen through a mist, though the term commonly is used though designate only the colored rings around the sun bending of light at the boundary diffraction (the to its geometric shadow) caused by water inbules, and have one or another angular diameter, depending on the size of the droplets that produce them, in the sense that the larger the
droplets the smaller the corona. Hen decreasing coronas implies growing drops end a probability of an early rain.
Halos, on the other hand
large diameter, usually colorlegs the rings of large diameter, usually colorless, or nearly so,
due to reflection and refraction by due to rellection and refraction by ice spicules,


Worth Celebrating.
Johnny Canuck-"Isn"t it
trouble across this line fence
bout a hebrating Uncle
ebrate."
storm centers-that is, in front of them- tha approaching verbs is that of the Zuni Indians, who say : When the sun is in his house it will rain soon Several others refer to the apparent diameter Far burr near wave
Far burr, near rain
The bigger the ring, the nearer the phet When the wheel is far the storm is n'ar ;
When the wheel is n'ar the storm is far. These latter cannot refer to the corona, which actually does change in angular size, because in ring the farther off the storm. Clearly, then they apply only to the halo, and as the apparent depends upon its seeming distance away, it fol lows that the supposed changes referred to are optical ,llusions, due to erroneous impressions of llusion is furnished by the moon as seen by different people, or as seen by the same person at different elevations above the horizon. When paratively near. it where it appears to be comwhen close to the horizon, where it 'seems to be farther away ; and yet careful measurements show but little change in its angular diameter, and that little just the reverse of appearances.
Hence, when the actual distance to
less that it seems to be, as often happens when less chat it seems to be, as often happens when
the clouds are low, it appears to be unusually large ; and, conversely, when the clouds are very
$\qquad$
our hittle
commonly is underestinuated, impresses one as being correspondingly small. Now, the higher the along and the farther removed that carry them the storm center. Hence, a halo that appears small is due to clouds far removed from the large, since it is caused by relatively low and therefore slow-moving clouds, usually indicates that the storm is comparatively near

## THE MOON.

Many people have supposed, and some still hold, weather, and there are numerous proverbs based the records shows that the moon's influence on the weather, leyond a very smenl tidal effect on is negligible if indeed it has any influence at all As hegis been well said

The moon and the weather
Mey change together :
But change of the moon
If wee'd no moon at all
And that may seem strange
We still should have weather
Thowever, the appearance of the moon depends fore, proverbs based upon phenomena of this fore, proverbs based upon phenomena of this alue. Thus,

Clear moon,
Frost soon,
Moonlit nights have the heaviest froste, and others of this class are true enough, because on the clearest nights the cooling of the earth's surface by radiation is greatest, and hence mosit ough the low temperature
reached, precipitation in the form of ilew or frost.
The meaning of halos. and coronas abut the
moon has already been moon has already been
explained, and the proexplained, and the pro
verbs connected with them ferretelling bad
fully justified.
The following is a 50 mewhat ing is
moon proverb Sharp horna do
threaten windy Weather. bad seeing is is clear malsphoric inequalitie which the free inixing caused by winds will moon's horns, then, appear sharp-that fis,
when the seeing is goodwe know that these inand the natural inference is that they have been smothered out by strong overrunning winds which
later may reach the surlater may reach
face of the earth.
THE STARS.
The stars, like the sun and the moon, have urnished a number of proverbs concerning the sense, When the stars begin to huddle,
The earth will soon become a pudde. This proverb furnishes, in general, a correct
orecast. It also affords a curious inustration of the ignorance that once was-perhaps it would not be far wrong to say still is-so prevalan in regari to stars.
ation, forms due to the beginning of conden cease to be visible, while the brighter ones shine imly with a blur (really a faint corona) of ight about them, each looking like a small, conused cluster of stars. Hence the idea, as above time-before a rain- and be scattered asunder at ime-be
There is also some ground for the proverb that declares the number of stars within a lunar for the nearer the storn of days before a storm, sation, nearer the storn the densert the condenseen through it. However, as an entire day stars pretty long unit of time to use in sign forethe fewer the stars within simply to say that the rain, though even in this form it is not very trustworthy, owing to the fact that the brighter An are unevenly distributed.
given rise to a few proverbs is twinkling, or the
irregularities with which they shine This fluc-
tuation in their light is caused mainly by irregular refraction, due to numerous inequalities in lar refraction, due to numerous inequalities in
the distributian of temparature, such as necessarily accompanies the over and under running of air currents, of diffierent temperatures and
different humidities, a condition that often pre different humidities, a condition that often pre prosaic proverb that says
When stars flicker in a dark background raj

## THE WIND.

directions and changes of the wind but their directions and changes of the wind, but their
value, in the main, is only local, except when value, in the main, is only local, except when taken in coanection with the height and rate of
change of the barometer. However, in middle latitudes the direction of ordinary undisturbed winds is from west to east. Therefore a radi cally different direction commonly indicates an approaching, or, at any rate, not very distant
storm. There, is, then, some justification for
such proverbs as the following.

> When the smoke goss
Gude weather is past.
When the sme
> When the smoke goes east,

When the wind's in the south.
The wind in the west
THE CLOUD
The height, extent, and shapes of clouds depend upon the humidity and upon the temperature and motion of the atmosphere, and conse the coming weather. One proverb correctly

The higher the clouds the finer the weather.
The formation of clouds is caused mainly cooling due to convection, the rising mass of air
expanding and losing heat because of the work it oxpanding and losing heat because of the work it Now, the greater the height reached the colder, correspondingly, is the air, and hence we correctly pense of much cooling, and therefore at the examount of maisture they contain can not be great enough to protuce falling or bad weather.
This proverb must be restricted
other- of the more common clouds. It stratus and
It apply to the more common clouds. It does noit highest of all, that float from five to to the everyone kn
mares' tails
Make lofty ships carry low sails
Purrents of the air that forms the strong upward curreats near the center of a storm rises to great the swiftly eastward-moving layers that carry it There are other particles far ahead of the rains be formed, but that just explained is clouds can most common, aad as in this case they are the the overrunning portion of a storm that is coming. on in the same general diriction, the pro-
verb just quoted evidently is well founded. When the air is rather is well founded. warm, ' great cumulus' or thunderhead clouds and apt to form, as a result of strong convection following proverb: When clouds ap
The earth's refreshed by frequent showers Another interesting phenomenon, familiar tion of a cloud along the himhest is the forma course, to the upward deflection of the wind of mechanical or forced sloping sides. mechanical or forced convection produces the sults in the formation whe the air is damp, re truth of the proverb that clloud. He Hence the

When the clouds are upon the hills.
They'll come down by the mills. SOUND.
When the air is full of moisture its tempera ture tends rapidly to become equalized warmer cooled by evaporation. condensation and the atmosphere is freed from the innumerable temperature irregularities that prevail during dry veather. irregularities that, as Tyndal showed sound. We see, then, that when the air is homat geneous, which it is far more likely to be when amp, it will convey sound much better than it good reason to accept the prond hence there similar ones, that say

A stormy day will betide. wide
Not only the hearing, but the seeing as well,
improved by the homogeneity of the atmos verbs, of which the following is appropriate proThe farther the sight the nearer the rain.

## MSCELLANEOUS

Variety of proverbs on could include a great there of proverbs-mostly foolish. However, pressure and increase in hurnidity, that have led accur number of well-founded proverbs, or rathe in the observations, for they are seldom jingled The typical proverb manner.
find it stated the
torm is marked by the rising of approach of a by the more abundant flow of certain springs, by the bubbling of marshes, by the bad odors of ditches, and by various other phenomena, all of pressure that ordinarily precedes a storm. The increase of humidity-favorable to cipitation-is noted by the gathering of moisture our own skins, the collection of perspiration on and the dampness of many hygrosciopic substances The last effect is illustrated by the packing salt, the tightening of cordage, and of strings o musical instruments, the dull or damp appear ance of stone walls and columns, the settling of
smoke, and by a number of other similar phenomiena, all of which have been apperilar phenomore or less justification, as evidence of a gathering storm
Of course, many other weather proverbs, might be given and in this article are typical, that enough ' from each class have been justified to indicate their importance in all those cases and circumstances where, unfortunately, a weather signs.

## Prince Edward IslandNotes.

Editor of "The F'armer's Advocate":
The rainy weather continues, and all crops are making excellent growth. Timothy blossomed on Monday, July 21st, and if the weather clears
haymaking will be on next week, be albout 80 pet cent. average

All othes crops are making excellent progress, connection with the Farmers' Institutes meetings in completed. They Farmers Institutes are about and the live-stock interests have received quite an impetus.
Petitions are the Fields of standing frain Com Agriculture, and there is every prospect of atment o large number of entries and of keen competition At present the summer science course for teachers is engaging attention. It is being con-
ducted by the Department ing with the Education or Agriculture co-opera July 28th. The number of applications is now has been engaged, and are expected. A good stafi in bringing the rural a step will have been made with the life of the people, which will undoubtedly result in better salaries and consequently bette The agricultural sthools.
by the engagement of graduate of the Ontario Agricultural Colle recent will teach in Prince of Wales College and assist in the work in field crops.
July 22nd.

The Ontario Honey Grop
members, the Crop Report Committe of of the On-
tario Beekeepers' Association have average crop of 63 pounds per colonated an The eastern counties the south-western counties The eastern counties have practically no honey at northern part of old Ontario, and the oi the part of Quebec province. As these are usually great honey-producing sections, their failure will
greatly reduce the total crep a crop, howeerer, the quality is reported there is tra good. The number of colonies reported exper spring count, was 25,418 pounds of white honey, estimated $1,618,489$ I In considering the shortage of the apple crop are taken the great In tact, some large salcs of honey have already been made at the prices named, as have already
1, light extracted (wholesale), 11c.-12c. m. : No. 2, 1, combt extracted (retail), 14c.- 15 c c. per dozen ; No. 2, comb (wholesale), $\$ 2.25-\$ 3.00$ per
dozen. dozen. These prices are f. o. b. in $60 \mathrm{mb}, 010 \mathrm{mt}$, the tin supplied. the two latter beight, with weight. The difference in time and brouble fillins the small tins ahout equalizes and the price. The filling Committee adds :-"In selling to the wholesale
commission merchant the lowest price should commission merchant the lowest price should be
asked; while the retail grocer should pay the
high st wholesale price. The retall consumer might vary according to the to to the
he takes at any one purchase, and whether he
supplies his

## Registered Seed Centres

During the present summer season L. H. NewAssociation, and T. the Canadian Seed Growers of the Seed Branch Department W. J. Lennox, Ottawa, the former acting east of Agriculture, the latter west have addressed of Toronto, and meetings of farmers in the Province 35 or 40 called largely through the offices of the Ontario, Representatives of the Provincial Department agriculture. As a result it is expected that upseed under the regulations of the of registered Growers' Association will be the Canadian Seed and large quantities of such seed be made avail, growing centres, composed of many more seed clean, farms already centres, composed of men with good, The object is to extend the use of pure crops. seed of high quality, beginning this summer with
fall wheat fall wheat, and next spring other cereals, grass, The plan being foll potatoes. Who desires to undertake the work each man least three or four bushels of registered seed at begin with, wherever this is possible. In the
case of oats and barley this usually sow a large enough amount of seed will enough seed to sow all of the land devoted to the thus only the one variety of the to have on his farm working with. In the case of whecial crop he is toes, and alfalfa, slightly different arrangements will be made.
The need for having a number of such centres
widely the fact that every year, almost without realizes tion, some districts year, Canada suffer from excepfavorable weather conditions, and not only have no seed to offer the trade, but are themselves in
serious need of better seed In some 30 Ontario count
been organized already. The initial centres have seed is to be supplied to those who take up the iently located, through whom members, convenmade. To those taking up this payment will be ment will be not only stocking their own farm with good seed, but the disposal of the surplus at prices which such seed usually brings. The
growing, crops will be inspected Growers, Association, and the seed itself subed quently inspected, sack by sack, and tagred by its officers before shipment to others. The plan

## The Panama-Pacific Exposition.

 Preparations are well advanced for holding in1915 the Panama-Pacific International Exposition at San Francisco, California, to celebrate the opening of the Panama Canal, regarded as one o tory. The siteritime events in the world's his wo miles long, tacing the 625 acres, extending Ing unique opportunity for spectacular features Columbian Exhibition at as in the case of the color scheme of the buildings will be rich the Pacific coast. Horticultur glowing tints of the brilliant feature of the exhibition naturally be a of planting has already been done. great deal
on the Water's front, covering thirty acres, will be the live stock exhibits, for which $\$ 175,000$ has been cash prizes. At former great expositions and character the Columbian at Chicago, the Pan American at Bufialo, and the Louisiana Purchase the live stock department, and won many distin-
guished trophics.

James Murray, of the noted firm of horsemen stock exhibitions, and known to followers of live Advocate " throughout Canada, "The Farmer's On Sunday lusu. A runaway horse struck his carand while he was driving on a Toronto street sustaining injuries not violently to the pavement, but which culminated fatally. Mr. Murray was ann in Perthshire, Scotland, fifty-six yurray was ago He was been in this country about thirty an years. horse, and from his youth was directly of a good
with thenected Canada he was in charge Before coming to han, England, and as a partner of T. A. Crow al! the leading horse shows of America, find also
of the old land. ars and carriage horsec, and his faverites were saddtrainer was unevcelled. The hhis ability as
grood frimend, and horsemen in harse has lost
regrut to learn of Mr.

Brandon's Dominion Exhibition. It has been suggested that this year will see been held in every province of the Dominion, and
if so, the great agricultural exhibition recently held at Brandon was a fitting climax to the series of these Dominion displays. The Brandon execu-
tive spent their money well in increased prizes tive spent their money well in increased prizes,
in arranging their enlarged grounds and in build ing a now grandstand, new cattle barns, and
other buildings that the executive may be proud of. They are probably the best of their kind in

Some classes of stock have been more promnent at western shows berore, but never has ther been a larger or better balanced display of liv stock than occupied the Brandon exhibition
grounds this year. Horses, cattle, sheep, and
swine were all well represented with
displays in Percheron and Canadian-bred Olydee
O. Clifford, Oshawa, Ont., and Mossom B O. Cliford, Oohawa, Ont., and Mossom Boyd
Co., Prince Albert, hard out Herefords, and J. D.
MeGtregor, Brandon, and Jas, Bowman, Guaiph
 In Clydesdales ford, was there with his dual-purpose Red Polle
 Regina; A. McPhail, and Alex Galbraith, Bran- H. Hancox, Dominion City, Man , W. J, Cut.
don; T. H. Hassard, Markham, Ont., and R. W. mings, Winnipeg; Jas, Hariot, Souris; B Caswell, Haskassard, Mrarkham, Ont., and R. W. .
Can, with many splendid shorter strings, serestatoon, with many splendid shorter
Cowlev, Alt. In Percherons, J. O. Drewry Cowley, Alta.; W. E. and R. C. Upper, of North hibited Holstelns. Ayrshires were shown by Portal and Calgary; Geo. Lane, Pekisko Alex Rowland Ness, De Ayrtonire Altare Re R Nown by Falbraith, Brandon and T. H. Hassard, madox Howick, Que., and W. J. Mortson \& Son, Fair great exhibit. A. C. Shakerley, Pekkisko, hado out his strong Shire string. R. In Shorthorn catring.e, H. L. Emmert, Oak Ble Buff
 Farm, Waukesha, Wis.


Gossip.
winniped exhibition prize win-
Clydesales.-Aged stallions: 1, H alibraith, Hartney, on Meritorious ; Proud Edward. and Diamond Roy Threersear-old stallions: 1, A. Steele, Glenboro, on Cowden Duke ; 2, Trotter der ; 8, John- Graham, Carberity, on Speculation. Two-year-old stallions : 1 , A. Galbraith, on Charnock: 2, Wm. Grant, Regina, on Roval Dragoon; 3, R. H. lanta. Yearling colts: : 1 , w. J. Mce Mc Callum, Brampton, Ont., on Royal Actor ; 2, Andrew Graham, Pomeroy, on
Count Again. The ohampion stallion Count Again. The ohampion stallion
was A. Galbraith's two-year-old Charnock, by Criterion. Yeld mares, with
a dozen out, were placed: 11 and 2 , w. a dozen out, were placed: 1 and 2 , w.
Grant's Bloomer, by Benedict, and Vanity, by Cartly Pride; 3, A. A.
Galbraith's Ruth Marion, by Boreas. Three-year-old mares :. 1, 2 and 3, w.
Grant, on Lady Hopetoun, Elona and Snowfake. $\mathrm{T}_{\text {Two-year-old filies: }: 1 \text { and }}$ 2, on Royal Maid, and Kismet ; 3, A. Graham, on Forest Lady. Yearling
fillies: 1, W. J. McCallum, on Scottieb Princess, by Lord Scott ; 2 and 3, w. udge, Jo. Dunno yela mare
Scotland.

| Percherons.-Aged stallion, class: 1, J <br> C. Drewry, of Cowley, on Jureur . 2 |
| :---: |
| Galbraith, Brandon, on Garou; 3, Finch |
| Bros., on Hamon. Three-year-old stal |
|  |
| ch Bros.. on Rambler, and Ansel. |
| -year-olds: 1, J. C. Dre |
| clan ; 2, A. Galbraith, on Hercules, |
| stalli |
| r. |
| y's yeld mare, Flossy, and tor |
| y. |
|  |
|  |
| sor w. B. Rich |
| Manto Dakota, and E.W. |
| res were shown by four exhibitors- |
| . Shakerley, Pekisko ; John |
| odnorth, and M. C. W |
| t |
| Leoond awards went to Sharker |
|  |
| remont. Ont., iudided the class. |
| thorns.-In the aged bull class the |
| were made by Judge James |
| Jackston. Scotland, were : 1. R. |
| well, Saskatoon, on Gainford |
|  |
| Stam |
| hal' |
| nd 2, H |
| Blurf, Man., on Missie's Prince, and |
| Choice Goods. Senior yearling bulls: |
|  |
| earlings : 1, 2 and 3, Emmert, on Oak |
| Bluf Wanderer. Royalist, and Sittyton's |
| Sultan. Senior buil calves: 1 , Emmert, |
|  |
| Cas |
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|  |
|  |



| M. R. D. OWINGS JOINS THE RUMELY COMPANY. An important step in the reorganization of the executive staff of M. Rumely Company is the election of M. R. D. Owings as Director and Vice-President. In special charge of the Credit and Collec tion. Departments of the businoss. Mr. Owings has had long and varied experiences in the implement business. Bo- ginning with a preliminary training in the business of the Sandwich Manurac turing Company, he entered the employ of the Miliwauke Harvester Company was soon after appointed its auditor. Ho then became Assistant to the Generet Manager, head of the purchasing dopart- ment, sales manager, and in 1898 was nade secretary of the company, which sflce he held at the time of the organ- zation of the International Harvester Company. Mr. Owigs took an im- portant part in the organization of the International branch houses, establishing he credit bureau, reorganizing the ofllce system at the various plants, and as isting in much of the organization work xtending his experience into all parts of he business. For the past eight yoars Ir. Owings has been in charge. of the dvertising and publielty dopartmonts Harvester Company and has broadened The scope of this work until it has be come recognized as a substantial factor in the development of agricultural educaion and betterment, not only in the nited States, but throughout the world. He was one of the first men in the imhat making and solling farm machines more than a business enterprise, be ane of its vital connection with the supply of the world, and he has largely instrumental in enlisting the resources of the I. H. C. in the ragement of improved methods in In hiture. hew position of President of the Rumely Company, Owings will bring to his work an large scale, as a trained advertiaer, and successful experience. His bing in all departments of the implebusiness will be of especial benefit new field, in which he will be a lactor. He leaves the Interna- |
| :---: |

$\operatorname{win}_{\text {wrade. }}$ have a marked beneft upon the
Attention is called to the advertioe ment on another page of the advertioe
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Proper Housing of Cows is the tite of
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Don't fan to bee the advertisement omit
write tor the booklet.
RIBY LiNvol
riby lincoln sai
The dispersion selol by auiution, on July Aock, belonging to the ostato ot the wool Henry Dudidin, of Rily Farm, Creet

 averaged sa35, the highest price boing
$\$ 8,000$, paid for this year's Royal Cham
 Argontine, who bought tour other rame
tro prices ranglig from $\$ 2200$ to $\$ 1,050$ at the Royal, sold for shato . Twes, Arst
at
Clydesdales at that hiohiand Summer Show of tho the Highlend and 1918 Agriturtural Sow of the Highisend and
ported as as having byen portod as having boen one of tho atrose
oot soen in many yeare. In a larg:
 Footprint, by Baron of Buchlyvie:
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on's seal, thown by Mearr. Mo Iongomersy,
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Royal Favourite

Many of our subecribe

In the adyertisement of the Maeosy
Harrisis Corn Binder, which appears olec Harris Corn Binder, which appoara olee
where in this tasue, a typographical error oceure, the advortisement reading side hills," whereas it should have read "no danger of overturning while workin strong points in tavor of this machine
which is constructed on the inclined ele vation plan, has no unnecessary parto.
has an even draft, euts clean and even Sas an even draft, cuts clean and oven
yickle ani of side knives and a regules tickle knife, and no peckers are presulear
to knock on the ears. See the, adver-
tisement and dont. isement and don't forget that the bin-
ler is is especially well adapted to eut side
iills.




A Certain Farmhouse Kitchen
IAll may not agree with the plan, in are few who cannot gain some valuable One of the many phases of comfortvenience of the house itsell, and not so much the parlor or living-room, not so much the bedroom, as the kitchen, where the time of the house-wife is necessarily for the most part spent. kitchens-among them the large, light kitchens of yore, with table set at the temptingly displayed-perhaps a sofa in the corner and a paper-rack on the wall -a spacious pantry opening from this, Wh many shelves and cupboards stored Where pies and cookies and other goodies. uch a room. one greats it charm about upon entering; but-and is it not a great "but?"-think of the steps it means back and forth from the stove on
one side to the sink on the other-back and forth from this to that so many times a day. No one denies that walking is beneficial to the majority of people but walking in the house is not like outdoor walking.
I should like those who read this know, ster ikito a little kitchen that know, for, like the spider, I can say it "the prettiest kitchen that ever you dible, spy. But as this will be impon kitchen to you. If I begin to bring the that the dimensions that the dimensions of the kitchen pro-
pear are but eight by twenty-five feet, I
fear the readers for the readers of this sketch will reexplain that the kitchen and diningoom together measure twenty-five by divided from the dining-room by a partition five and a half feet in height. The construction of the room is crafts-
man-like-great hand-hewn posts in the man-like-great hand-hewn posts in the
corners and one in the center, and overhead beams, also hand-hewn. Some may hink that the time devoted to hewing posts and beams might be spent more
profitably in other ways, but in this case the lord of the manor takes great
pride in the work of his own hands. The great stone fire place and chimney of his making, he having drawn the stones from all over the farm and constructed the chimney from them. A noble fire-place it is, flanked on either
side by built-in settles with deep boxcushions, and underneath cupboards for the children's toys. Along the south
side of the room two book-shelves top side of the room two book-shelves top
the settle and the organ, which, denuded of its gaudy red plush and plate mir-
rors and other ornamentations enclosed in sober black and built into the
wall. At the other side of the fireplat also the settle turns a right angle and forms the side of the lower stairs and landing of a stairway. A long window
ninety by thirty-two ninety by thirty-two inches- extends be-
side the upper stairway, and at the base of this runs a low settle with cupboards underneath for flat-irons, dish-towels, etc. This is at the west end of the kitchen. In the southeast corner of the room
stanci the dining-table, made from an
old tack cherry tree that once stood
behind the barn. It is round, six feet good resting-places for plants, as a people, and frequently several visitors. the top of the aforementioned partition
with ease and comfort. pedestal is built into the fioor, square ing-room. At the end of this thertition rather, the floor-of hard maple-was ing on either side well finished, so doilies are frequently
used insted
underneath a lor long table with, used instead of a cloth. A large crafts - this a sink-a slate ond with shelf over man lamp of wrought-iron is suspended head ; then another table, with a small above by a chain. The sideboard is
large and roomy-three cupboards abve and five drawers and two cupboards beow the table space. The settles, organ and sideboard are all ebony black, the It is simply pine, painted, but is very effective, and certainly much cleaner and more sanitary than plaster and wall-
paper, and repays in the end the extra coser, at the first. The people who own
this kitchen are tearing and paper from the rest of the plaster one room at a time, and replacing it pretty by tinting it in can be made very stenciling a frieze, or running a three - foot dado of burlap about the room, with strips of molding at yard intervals
to give the effect of panelling. to give the effect of panelling.
To return to the dining-ro
chen: it was their original intention to

## sideBoard ${ }^{1}$



cemen
圆
through the chn ; the ber
paring-table and fasi it the receivers in the bin outaide. With the receubers in the bins a great deal of tracking into the kitchen
is done away with. The dining-room as a living-room. With its great doal With its open fire-
pleace, setivilles and round-table, which btween meals is devoid of cloth and be decorated only with a icenterpiece or run ner and a dish of ferns or flowers, and
perhaps a few books and is a most comfortable room. Some one
has said that muete showld has said that muste should ptay a large
part in life on a farm. part in life on a farm. How appropri-
ate, therefore, to have a musical inetri. ment in a room so much used । The piano in this house is reserved for the central hall, but the organ, which, in
epte of tis aweet tone and good condl tion, was an ugly aflair in its orietine form, has been transformed into sorme thing artistic and attractive and source of great Joy and pleasure to all.
Frequently, while the children are gather ing for breakfast, someonie playe asthor ing hymn, in which all, proseant jotin, and so they foel the day is well bogun ; it it they have their library in the front of the house, they keep on the shelves over the settles their favorite volumes of poetry.
of all.
The room is ideal for social affairs and gatherings of various kinds. The cotthage prayer-meetings are onjoyed here, ae
there is plenty of room and rood ventilation. The members. of flue Literary Club draw their chairs about the big radeahip. In truth, the of good comeems so much more livable than many others thet the owners aro tmpationt to monize with it. of the house to harJust a word this articte. If you wish to make bound work eesy for your wives, build in overy hing possible. Bulld lockern in your the family. A general closet for out-ofdoor, garments is an abomination. Chilplay or to help-rentlesu, carelesm lithlo
thinge-God blens them hats and coats and mittens. Let oneh
have his or her own little clonet, and have his or her own ittlo closet, an
order will prevail. Another thing-build in the bele Imagine that the built-in, bed of the kind I mean was original with the peoplo who
owned the Kitchen. It ts not owned the kitchen. It is not a buik or
a berth-it is a real bed, and it can be as plain or as ornamental as is desirred.
The built-in bed has three sides out nto the room; the head-board is ift
against the wall. The fist top; upon which rest the woven-wire sprjige,
made of hard maple, matched and brush ed with several coats of varnish, that no particle of dust may in any way sift
through to the floor. There are three posts to be made-any carpenter can
turn them out. The two shorter ones are for the loot posts, the taller one if
split in two and the two halyes put flat split in two and the two halyes put fat
against the wall, lorming the head-posts. A good/design for these posts fo an acorn. or any good shape may be used.
The bed can be enamelled The bed can be enamelled whito, or stained or painted to match the wood-
work of the room. When made up, with springs and mattress. etc.. it is hardly distinguishable from an ordinary bed, exoard are

Some day we are going to experime in built-in bureaus and washstands. The possibilities of built-in furniture soem ofbe built in-bookcases, writing-desks. couches, all sorts of cosy nooks and cor-ners-making the home work infnitely

## Hope's Quiet Hour.

## With God - Enough!

For to mo to ivo its Christ, and to dio - Loma

To what peas aro wo coma
Soc how wo mon anouta tomporal loss. But therk
But the soul's loss passes by and is
forgotten,
Orgotten,
And comes
back to ofir thoughts well That which is of little use,
Or of no use, we seek after,
And that which over all is
He pass by without care
Hecause man's being flow
external,
And if
himselt
And if he do not quile away to the
He is con
dthe Imitatio
Have we come to ourselves ? Christ we satisfied to spend the precious yeare of this earthly life in reaching out after riches , and honour, which wither like Alowers as we grasp them? Are wo seeking earnestly after the visible re wards of earth, content to let the soul's loss pass unheeded? Do we complain about a temporal loss, and, "for a trif ling gain," spend all the best. powers o mind and body?
importance : in life is a matter of vital sire are those we try hardest to most deand "where there's a waill theren's a weyn,
It is Derilous to our soul's progress to care over-mueh acout the approval of
men or wordly success. How safe it is. if wow
Tavor.
To shun the world's 'appearances' proval from without. But with all carefulness to follow after all that gives zeal to life and betters it. How many have been hurt when men
have got to know their worth praised them ;
How many
How many have been profited by grace in
silence kent." iilence kept.'
Swayed is real glory in a hife that is not pratse. Strange to sarn, or desire for
care lenst about the people who care least about the approvai of mon
receive in the end the praise and respect recelve in the end the praise and respect
which they will not purchase by the smallest deviation from right.
When the enemies of Christ
trapping Him, they intention of en Word of praise, they beging: by a subtle
know that Thou know that Thou art true, "Master, we
the way of teachest the way of God in truth, neither carest
Thou for any man ; for Thou regardest not the any man ; for Thou regardest
not of men." Then they asked their searching muestion about the
lawfulness of paying
tribute the lawfulness of paying tribute to thei Roman conjuerors, expecting that His
very fearlessness would lead Him to rouse the anker of would lead Him to saying that it was lawful. or elsole bring
down on Him the vengeance of the down on Him the vengeance of the au
thorities by saying that it was not law ful. The trap had been carefully, laid and vet our Lord walked quietly out o it. leaving the defected conspirators to go marvelling on their way. His great
enswer was a light for all perplexed enswer was a light for all perplex
people and could not be disputed.
Our Master is meek is never weak. meek and gentle, but He so that their opinions assertive natures no value. On the "Day of Questions"
our Lord foited the ingenious malice learned foes-Pharisees, Herodians matice of ducees and lawyers-simply by holding up
before them the highest ideals of love and service. It is not surprising that "no
man was able to answer Him a word,
neither durst forth ask Him any more questions,? Read St. Matt. xxiii, and see if it would
be possible to doubt the high-mindedness Him who spake as never man spake.
Now, look at a picture of one who had In a certain convent there was an ald In a certain convent there was an old
man who needed something to occupy
him. so he was given the charge of the
clock. Very soon he complained that
his business was troubleson tious. "What! winding up the weights Superior. ${ }^{\text {and }}$ ? exclaimed the surprised is "Oh. no !" answered the old man, "it If the clock is a form minutes slow, the students from within come down upo
me. If I put it on a please them, the other students grumblo and say our time is fast. When I put
it back, to silence their complaints, the it back, to silence their complaints, the others begin again, till my poor head
might as well be the clapper of the bell thing."
We We can laugh at the old mat compts to please everybooy-but let us
be caroful that our own aim is not much the same, although we may veil it

## 



A Built-in Sideboard.
Real glory ! What is it
Many years ago there
prince, the heir to the throne a noble He 'found out that God intended to place his dearest friend over the kingdom, in turn against theuld have been easy to who had won his heart. young shepherd have been surprised is Jo one would
tried $t$. tried $t_{1}$, get rid of his rival. Then the world would have had one noble example less to admire and try to follow. The glory
of Jonathan is seen by all. men, in that he stood aside with beauti ful humility, submitting without complaint to the will of God, which was
herd-terribly hard-for any man in his position to accept. He counted the
glory of an earthly glory of an earthly
kingdom a counted the


The Settle, Organ, and Book Shelf Above.
hing as compared with the real glory of "Without God, without anything riend. That is a a loyalty to his wod-Enough." within the at anything ! With
reach of every one of us every day. Yet we are often so disappointed and
distrustful when our earthly plans are
unsuctessful. Is not our disappointment $\quad$ Keeping It Quiet. hearoof that, deep down in our secret Small Caroline's home was unfortuGod what is best for us? The real blorhood, and. being an observant neigh-
glory of Jonathan's soul wo mad drawn her glory of Jonathan's soul would not have she had drawn her own conclusions
been revealed and developed if he had An unusually naughty prank, ing and purpose. We all need the mean- mins in prather her upstairs to confess he her
tica tice in trusting God, which is given to
us continually in large troubles small. When we pray earnestly for the
fulfilment of some cherished desire and
God seems
prayers, let us thank Him for keeping
the ordering of our lives in His and loving of our lives in His wise
and lhing this lifo would what a dangerous thing this lifo would be if we were al
lowed to choose wherever we pleased our own work, go cross we felt inclined to shoulder There would be many spoiled children in the Father's family, and very few patient heroes. Only One Man was given
mbsolutely free choice-only One could
safely be trusted to chose wieoly absolutely free choice-only One could
rially be trusted to choose wigelly and
to do. What was His choice? It was
to do will of the Father: ".Lo, II come (in the volume of the book it is is Written of Me) to do Thy will, o God." untill strength came to say: "Not My
will, but Thine !" will, but Thine !" When He could not derkness and desolation which swept over
His耳is spirit could not loosen the clinging
of His heart to then over of His heart to the Divine Love, which meant everything to Him. Though He
might feel forsaken, there was might feel forsaken, there was no other
but the Father to whom He could ap-
peal. peal. That awful cry from could ap-
showed that cross showed that the supreme desire in the
soul of JESUS was to be in fellowit with the Father.
Prayer, it has been said, "is not a
rope to pull God don pull us up to God." down to us, but to
it be to ws ip Ho profit would it be to us if He allowed us to to gain would whole world, if the awful price we had
to pay were the degrading to pay were the degrading of our own
souls and separation from Him. "Without God, without anything !"
On one occasion, when the Israelites
murmured and complained about the plain but wholesome food provided for
their daily needs, God showed them how
disastrous it disastrous it would be-even physically--
to give what they foolishly demanded. They wanted meat, whether it was good for them or not, and "He wave theo
their own desire." their own desire." The immediate re-
sult was a terrible plague, which "smote
dow suit was a terrible plague, which "smote
down the chosen men of Israel.""-Ps. 78 ,
31. In the margin 31. In the margin and in the R. $\mathbf{~ V}$.
it is translated "the young mer it is translated "the young men of Is-
rael." When people are young, they ar more apt to fancy that they -know are is best for them. As we get older, and
often find often find ourselves thanking God and
all our heart for the pleasant al our heart for the pleasant things
which He did not give us in answer to our unwise prayers, we learn to distrust our own judgment, we learn to distrust
fair to least, even if we me the great lesson of air to learn the great lesson of trusting
our Father. Life for us will be terrible failure unless we set our hearts on the highest
things and seek the approval rather than earthly success. There. is a
quaint Welsh proverb to this effect

## The Legends of the Fire Flies in Japan.

many legends: and at is connected with the year they are ssen in large dres of on the banks of the rivers arove marshy places. So much of legend romantic lore has been woven about th firefly that it has become part of the native cult of the country. Tradition Clle how heroes have been led to deed of bravery by the lantern of the firefly Poot heve sung about the light of the Arelly in the hamboo wilderness, and how its light has guided fairies down suffering mortals. There is an old tradition that tells ago, who was too poor to thands of years his lamp that be might study the oil for of the sages, went out and caught these anglies, and so by their light was able
to read and to learn The prettiest and
the legends is the most pathetic of all and Asojiro. On the River Uji the fireaies are thickest, and their light the
brighteat in all Japan. It was hore
thousands of of the fir of years ago at the season Kioto firefly that Asagao, the beauty of the river one summer and drifting down lanterns of the fairies. A boilroat passed. and in this boiat was warrior the handsomest of the Samural gother, and both fell in love drew toThey wrote love messages to at sight. other on their fans. Thes the current
parted the the to find the handssmegao tried in vain fairy night, but ha had goune to fight far his lord. As time went on and he became come to her;, she cried till she was ever true to her passed, and she a travelling koto player, She became search of him. . always ip about. grew old and ugly, wandering an inn far from the Ujui River, and at she sang of the fireflies, of youth and maidens, and of love. Strange as it
might be, among the gueste lover. who recognized in the th was her woman the maid he had wooed so blind ${ }_{\text {He }}$. called the minstrel to him and ake called the minstrel to him and an outcast singer. Asayao sang ths
story of her life. her wanderings and her years she had found that after all those Asojiro did not her lover. hurried from the inn, leaving a bag o gold and a note. After the a note was of
read to her Asagao follow her Aserag. That once started to to the river hank and learned that spairing, Asagang ferried across. De spairing, Asagao waded into the river,
calling on the firefies to less eyes. Asoiiro, to looking back, saw
a pillar of light and ordered his boatmen to approach it. $\begin{aligned} & \text { irdered his boand } \\ & \text { drowned with millions of fireflies Asagao }\end{aligned}$ drowned with millions of firenfiles Aspagai
over her withored upturning Senior Beavers' Letter Box Dear Puck and Beavers,-I have never Ore. I like Fourmer's Advocate", be
My grandfather ha little corner fine. My grandfather has taken corner fine and Advocate" for about thirty yearsand going to tell
you about some of my favorite books
and authors. London, J. Jackson Wray, and Jack
Swan. Maggie Swan's Annie Swan. Maggie Swan's books are also
very

 Bux 281, cunminge Bridge. Yony pooke, Maricie
Doer Puck and Beavers,-T have bean

 mert the chicory, turkey grases, and St.

 deader inter that go stright down The pant four feet long, that is rooit
 daiky The seod is. whito and aboat
 $\underset{\substack{\text { by } \\ \text { The the turkey } \\ \text { nota } \\ \text { grae }}}{ }$
 that have ont been plowew unded for a




 in cup shaped. The teaves aro like
 you gare woonering buak whard this toped to
 are chopped un very tine, and mixed up
with shortst and water. st. John's wert is also a woad which
grows in places not very ofteo cultipar many $a$ time during the day tor tor the
 Jast about tho end ot the coultor, and
aro alvays clogring the are alvays clogzing tho plough. It has
stalk without any
branches.
thut the leaves grow ripht ony branchesi, but the tho stak. Litile bunches of Anowers are nearry, allt the
way up the stalk. The leaves are very


 Wishing the Beaver Circle ever succoess,
I remain, Yours Truly, Joesop's Falls, Gorton a. lamb. IThit loter won a prizo in July of
 do not know the turkee grase at all, at


Dear Puck and Beavers,-1 thought 1
would
join your Circle. takes "'The Farmer's Advocate", and I live about four and a half miles from the village of Lansdowne. My father has a hundred-acre farm, and he is
milking seventeen cows this summer, cummer, and I have to help him to milk. We have five little calves; their names are Johnny, Anny, Polly, Fanny,
and Johannah. We keep three pigs and about forty-ilive hens. We raise corn on
and a seven-acre field every season.
We have two silos ; the smaller one one
one is 13 feet by feet, and the bigger
26 feet. The only nets I have are a dog and two kittens.
pets and
The dog's name is Collie, and the two kittens' are Pinky and Judy. Ths dog and very good hunter for woodchucks
Last summer he and I
killed about killed about fourteen woodchucks and
one coon. 1 I am getting along fine at school. Now I quess I will have to
elose. Yours Truly, $\underset{\text { (Age 11, Book IV.) }}{\substack{\text { EdDIE HEASLop. }}}$ Dear Puck and Beavers, -I live on a
farm of 250 acres. and fifty-eight head of cattle. I have a
dow whose name is Spot, and he is a goud cow dog. Is I usod, to have have some
fabhits but they gnawed the trees, so I rabhits but they gnawed the trees, so I
had to give them all away.
Last summer my father bought an
to ride in it. I have a pair of banties and one guinea-hen which is very noisy.
We have ablout fifty hens, and we are going to build a hen-house next summer I sent for "The Farmer's Advocate,
about a month ago, and like it very much. As this is my first letter to the Beavers every success.
Dunboro. Que. Dunboro. Que. CARL ingalls.

Dear. Puck and Reavers.-This is my first letter to the Beaver Circle. I like Advocate." I live on a two-hundred We have I like to live on the farm. Advocate" for a long time, and we like

In Far Japan.
it fine. I qo to Bellountain, school, mother at intervale. Captain Hunter about a mile and a half away. $M$, was troobled after this because he loved
teacher's name is Mr. Drury; in like her wery muen him fine. I have two brothers who go her up. When they landed Itow' to school with me. We have a school- mother and Captain Hunter were garden, at our school, The beys rave a potato cluh. Each boy gruws 1 wo
kinds of potatoes, the early kind and the late kinut. and the girls have a flower garden. We send tc Fuelph for
the seed. In the autumn to have a school Cair to sh, w our vegetables. and we can bring $\varepsilon$ 'y little pet
animai. We are going to liave judges and a secretary. Well, I think my in print. $\quad$ ROY LAU ILL
Belfountain, Ont.

## (Age, 13, Book IV.)

Dear Puck and Beavers,-As I am hrough with my homeavors, and am am
sleepy yet, I thought I would write to

## August Days.'

the Beaver Circle. I want to tell you bush where they are boiling sap, and
about a book entitled "Lou." about a book entitled Lou. inht years. have a good time hiding behind trees
Lou was a girl of about eightying sap pails. I have two She had dark hair, and healing hands. white cats and a little colt called
One evening when her mother and her- Bessie for pets. One evening when her mother and her-
self wessie for pets. This is the first time sick and had to be taken to a close. Wishing the Junior Beaver Circle
 ran away.
After that she lived in a forest in Dear Puck and Beavers, - Papa ha
 $\begin{aligned} & \text { meetings had started, and she became a } \\ & \text { melpful girl. }\end{aligned} \begin{aligned} & \text { about twenty years. } \\ & \text { brothers and no sisters. }\end{aligned}$ I have no
have a pet

Mother Fas an alderly lady there named aches at intervals, so little Lou would healing her headaches. She had a peculiar After camp meeting elosed Mother :PerHunter, who would her brother, Captain He would take her out for also. voyage. She enjoyed out for a sea
Captain Hunter very much. Captain Huntor haded taken her to India,
and on their way back they and on their way back they met a ship. This' ship needed repairs and had to
eturn to India. so three pasengers were put on Captain Hunter's ship. One of the passengers had taken slicko
with a headache. so Lou was called in. with a headache, so Lou was called in.
When she entered in, behold, she saw har When she entered in, behold, she saw her
iother. This was the greatest joy for
Lou, as she had beem homesick for her
 mother and Captain Hunter wer
married. Lou was a very lucky gir Do you not think so, Puck ?
Your Beaver, Heidelberg, VERA SCHWBITZER.

Honor Roll :-Muriel Luce Oacar Gib son, Georgiana Huriel Luce, Oscar Glib-
Ida Scott, Doris Moreland. Clará Clark,

Junior Beavers' Letter Box Dear. Puck and Beavers, -1 go to school
every day: It every day: It is just acrose the rooud.
I am in the firat book. There are seven school in the spring $I$ go back to tho
 has taken "The Farmer's Advocate" for a number of years, and I Ike the
Beaver. Circle very well. I have one Beaver. Circle very well. I have one
aister. We have a pony and a liltent The pony's name is Teeddy, and the kitten's name is Toot. I am sending a I have nothing to do, I thought I would write a letter, and this is th3 There were onoe three children who
lived in the woods, and thelr were Madeline. and Mary, and Eir names day their mother sent them to pick berries, but told them not to go far
bay or they might
 path, but they strayed off the path
away into the middle of the forest. Whay into the middle of the forest. When night dreaw near they called for
their mother. but she did not hoar. They hoard the sound of an axe. The ran in the direction the sound came
from, they saw their father who had rom, they saw their father who had
been, cutting wood in the forest. When they went home their mother was over-
oyed to see her little strayaways home oyed tha see her littrle strayaways home
once more aifter the day in the woode. once more after the day in the woods,
but they didn't. piek berries any more I ma

HELEN FERGUSON
Port Stanley. Ont.
Dear Puck and Beavers, -My father has not taken 'he Farmer's Advocate' very long. I like reading the letters very
mach. We have no school here, so our math. We teaches us no in the wine, so our
Whe have fine We have five head of cattle, and one horse, twenty-one hens, and one pig. I
was glad when it was spring. We to haul water hall a mile evory day winter. We are thirty-six miles from Hort Arthur. and four miles from a tore or post nflice. Bye-bye, wishith Nolaccess to the Beaver Círcle.
Nolal. Ont.
JAMES SPENCE. (Age 11.)

Dear. Puck and Beavers,-This is my
arst letter to the Baver Circle arwo elder sisters have written several times; the eldest receiyed one prize. We have a sugar bush, and papa makes
maple syrup.
Our teacher's name is maple syrup, nur teacher's name is
Miss schlieuhauf. We like her fine. We live about a mile and a quarter from the scliool. I have seen many birds that have oome back for the summer
My grandpa McCallum has taken "TTh Farmer's Advocate" since take. "The will close now hoping the Circle has every r litule, Beaver,
VERAN MAE
ERNA MAE McCALLUM.
Iona Station. Ont., R. R. No. 2.
Junior Beavers' Honor Roll Holbert Empey, Sadie Odlum, Gertrude
Woolman, Elsia Sayers, Graham Wray, Woolman, Elsia Sayers, Graham Wray,
Lillman McComb. Isabel Ferguson, Mary Wood, Geordie McInil, Harry Harmer Alvera Haid, Margaret Haid, Lillie Mc Ewen, Ermina
Charlton, Caroline
Arsenault, Maylor, Carrie Mar Mc

Junior Beaver Circle Note Frances Taylor (age 10), Sautorville Ont., would like some of the Junior will the write to her Will the Junior Beavars, when writin otters, "Jircle, please address
Beaver their
Circle," "The Farmer's Advocate," London, Ont. "The
Beane We have still letters held over, for
want of space, since April.- Patience,
little Beavers.


## a true story of a teacher's

 ExperienceBy M. Blanche Boyd
Winter eventivg
The winter evenings with us were not
long bscause we had most of our dark long bocause we had most of our dark$o^{\prime}$ clock and went to bed from seven to half past eight,--seldom later, except on Saturday when the mail came in. ' After
Christmas the master of the house and the boys would play draughts and "Old - game, they wanted to play it seven days of the week. Sometimes a young
man would spend. the evening to have a man would spend the evening to have, a
game too. They son at draughts.
The mistress of the house, Annie and
mysell would generally be knitting myself would generally bouse, Annitting and ings. The stockings we wear in Southern Ontario are useless there, and the
men wear three and sometimes even four
pairs of pairs of heavy woollen socks under

## woul more mak H goo min com yar deai men ceiv han dare thin men O deer so the brin leave of were wour pnow woul

shanty yarns, and t pake me, the better ho enjoyed could He said it was impossible to lea good life in the shanties or at the es. The first night there the newwas seized and made to tell a
or sing a song, and it was almost or sing a song, and it was almost

$h$ to retuse. The bashful young found it the hardest, for they reed very rough treatment from the | ands of their comrades should they |
| :--- | ing rather than receive this treatne morning Mr. McDonald shot a next morning about seven he and next morning about seven he and ng home the deer. They could no

before the streak e before the streak of day for fear of wolves, he said, and, in fact, the voured their prey or the new-fallen
suow so covered up the snow so covered up or the new-falle
would be impossible to al that would be impossible to find it, but none
of their fears were realized, and they


Whereon it is enfect day,
Not to be doing, but to be."
their oil-tanned moccasins, and the wo- came home ahout one oclock. The
men at least two. In a box upatairs little creature, though dead, had it
I I counted no less than forty-five pairs. beautiful, large, inough dead, had its
of socks. You see each week they
open, and it cut, metoring eyes would take off the underneath wair and they open, and it cut me to the heart to se
put a clean pair on outside put a clean pair on outside, so in this hunting Mr. McDonald says he hates
way each pair was worn four weeks. killing a deer. especially
Sal Some of the people could not afford to kion near, for it rivespachally if its fawn is
buy the buy the wool with which to knit, and ing look befores such a piteous entreat-
the result was that the poor childran it mim that ite make the result was that the poor children
were frequently crying at school were frequently crying at school with
frozen toes. If theres was any wool to be wound,
the boys wore eny the boys were ever ready to do wound,
us. They us. They would put the shly in over the
backs of two chairs, and by rumning
around then around thell the would soon wind the
ball. Occasionally they had a race, ball. Occasionally they had a race,
but his made us so dizzy to watch that
wo tried to uvoill them. We wore oit tanned moccasins. so made we wore oill
noise, althomen noise, although they marked the floor
where we steppetb Sometimes $\frac{1}{l}$ "ould read a story
aloud, especially on Sunday, but as we aloud, especially on Sunday, but as we
were so busy with needlework and, as
I had a good deal of studying to do, it. him feel cruel. After skinning it they, of course, cut
it up, salted it down, and packed it for
winter use of water containing salt and put in a tub it was left for nombut a and lime, where
the hair, then to losen the hair, then it was hung on a
"horse". which was homemade and
used as a vice used as a vice, and on home-made and was hunce over this, and upon. The skin scraped the hair as well Mr. McDonald he hair few but the Indians mad more tran Mellonald their methoct of tanght
, which he found much better, fis
hill was sintere
it was wrung as dry as week. -ex the door in the front of the stove the opened, and we all began the work wa front of the hot fire, a semi-circle in of the skin and pull towards us with edge our might, keeping it going around ail the time so that every part is stretched ly dry, when it becomes soft is perfsct if done properly. The slippery, whit, skin is difflcult to grasp, but wory managed it. When the tanning proces
was over Mrs. McDonald used up to make mittens, moccasing to cut laces, as it was so strong, soft and
warm. Knowi one school year I was very there only see as much and learn as much as to ble, and realizing that these poople and novelty to it was a great pleasur things they did. so friend to do all the these they did. so friends, do not let Mrs. McDonald even wanted to teach me me
how to make man' how to make man's clothing as she said never knew when I might need to use my knowledge, which may prove true,
but, under some circumstances, I
I
About eleven o'clock one night I was distance, gradually coming howl in the then die away in the distance. up in bed to listen, expecting to ${ }^{\text {I sat }}$ ny relating the fact next morning won my relating the fact next morning Mr. and a dog would never answer the cry of a wolf. Most likely it was chasing to see one, and Mr. McDonald told med a stranger never realized the danger up there, but only those who had had sad
experience. Then he stories of his Then he began one of his
He was just a young fellow of about
twenty-four, and his wife a young girl of twenty when they went to live in
this place. this place. He built a tiny log shanty used for a "call" house while and was there, and for fear that I should get a photo of it Mr. McDonald burned it advice to cut down ten tre his father's Should he stay at home to do that all the time he could earn no money, so he used to walk thirty milles to the lumber camp, and come home every Saturday
night to see his wife and two baby

It was Saturday night just at duak, softly to mother was singing her baby was playing on the floor ather little on when suddenly there was borne on the still evening air. a low distant noise o
which they knew the which they knew too well, the meaning
as nearer, ever naarer, came the mourndul howl. The wolves were the mournful and were following the husband, for it was just about. the time he would b brother was staying with her husband'
time at the time, and, seizing a rifle from the ceil-
ing, he quickly ing, he quickly loaded it and started to
his brother's aid, just as Mr burst open the door and rush. McDonal He had been coming along happily, whistling to himself, when all at once he heard the sound which he
knew all ton well. steps to a run he woll. Quickening his
hopes of finding fod the creiel in hopes of finding a means of escape
knowing that wolves will stream. None too soon, he cross a stream. None too soon, he saw a log
lying across the creek which the kindly
molon, fickeren had shown him through the branchee, he whown him. Bery nimble ong a river-driver the other side, when, with a reached
effort, he fighty effort, he flung, the log with a mighty
and it slowly the water and it slowly floated down with the knew the baffled wolves would find he means of crossing, as he could see some their bodies leaning on, and could hear escaped.
He and his hrother got their rifles and for an attack, blockaded the rifles say that a wolf will run if it, for they falls, and they always put one thereom It was no at night. realized, and the wolves were fears were
 were two windows in the cabin. There
either end, and it was herse, one that the
men took up their position and shot their nature the brume on．Tevourad their ollen comrades．untile，with howls oot age at such destruction，they scampered of to hold a council－meoting，as it it
were，to arriange the next plan of at－ tack．This gave the men a rest，for a time at least．The babies were scream－ ing，wolves hawling and rifles going off， making a deafening nolse． nd began to scratch and dies to under－ mine the house．and this they could do in a comparatively short time，as the the
foundation was
naturally
not loundation was
strong，and the turally
not very
brutes enough to dif at the back and front and not where they were in danger of boing under fire．Can you imagine the
inmates＇feeings ？
It was an awtul
 and they could do naught but sit and ait for the almost inevitable death
hat awaited them．
But it be．At last a faint glow in the east egan to preak，and the wolvee，with a departing yelp，fled away through the Behind the house was a clearance， ation was impossible，but Mr．Mc－ Donald said he had cut those down be The swamp behind the thested by wolvee． gerous，too，for that reason，so do not lame me，readers，for being rather imic about going to school next morn－ ing，especially as I was the first to Mr．McDonald had met a wolf in the Held next the house the winter before 1 wit the wolt had returned for his rifle， ut the wolf had gone by the time he got wack．The winter I was there one
of trustees was working in the
shan shanty when one of his cormarades thas
tow．to pieces by these brutes，and two


＂Educationalists are iving more and more atention to the This is especially true regarding the education of young ladies．For very This is especially true regarding the education and
many a residential school is best．Such schools are growing in popularity．
Many of the best homes patronize them．

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ST．THOMAS，ONTARIO

| Chapter 12. <br> ThE CAMP． <br> About threp－quarters of a mile through the woods to the north of our place was the cmp from which two of my | little pupils came，so I received a kind invitation to visit them．Usually thore is a man conk at the shanties，but in this case it was a woman，as her hue band was＂boss＂of the shanty． |
| :---: | :---: |



| Moultor | College |
| :---: | :---: |
|  |  |
|  |  moutton college |

## ONTARIO <br> And Ontario Conservatory of Music and Art, Whitby, Canada, Stands For Effi: cient and Cultured Young Womanhood LadIES COLIEGE <br>     <br> REV. J. J. HARE, PH.D., Principal.



TERE is a plow that is just about able to run itself. Once You adjust it for width and depth of furrow, a boy can a stone, the Plow rises and resets itself breakages. When rises and resets itself, thereby preventing the Footlift attachment raises the bottom is reached, a touch of ished with either Judy Bottoms (cutting 7 for the turn. Furnfor clay, or No. 21 Bottoms (cutting 10 inches to 12 inches) for loam. Equipped with Rolling or Straight (o) 12 inches) You should have this plow -one of the netret al
 proper design and the best grade of material we can buy for the purpose,
Mould boards are sof wearing material procurable-no brittleneses-no breakdowng and longestThe Ontario Footift will -no brittleness-no breakdowns.
Spection and and investigation.
We 're alw
.
COCKSHUTT PLOW LIMMPANY BRANTFORD THE FROST


When Writing Mention "The Advocate"
mo to go home with them to to stay all
night, as the men night, as the men always went home for
Sundays, so I consented. In the woods we met some cows, when, to my woodror, theme met some cows, when,
mischie two litle imps of mischief rushed up to a cow, smatctobed
her horns, hung on tight, and away her horns, hung on tight, and away
they went through the they want through the moods. They
laughed merrill as they rejoined me and saw my look of relise after such a
fright. Had the cows belonged to them tright. Had the cows belonged to them
and been used to such treatment it and been usad to such treatment it
would not wut as these daring young children hard, ly knew who owned the cowa it was more to be-wondered at. Recorless, dar-
ing children of thy foreat. ing children of tha forest, daring every-
thing and caring for nothing
As thing and caring Yor. nothing As you
may imagine was man menense relies
to see them safe at home. In the heart of the forest neetled this funny, long, low, structure built of stood near by. There were two win dows facing the south. one on either side of the rough board door. Ineide
were rough boards for aloor mide looked as if it had small-por it which marked up with cork-heelsd boots. Part of the floor was of rough beams, all
the walls were mad the wails werf made of immense, rough
logs, which they sometimes noed shelves upon which to place small articles. Some poles were place mastenal in
the lloor from which shent the floor from which sheets hung around
the three beds to form rooms. The men's bunks were at the west end of the shanty. These ware made like litters covered with balsam brush. Which
served as a matress and pillow, and
they hung ane above another they hung on anavere another. In. .the
centre of the shanty was the cooking stove,-a spindid one which threw out a great deal of heat ; then there was
a stove near the men's bunks to weap them warm.
A young lady with her littlo brother from Gravanhurst was staying there with her aunt, so wa had a very nice time.
They were such nice poople and quite re fined, and I
visit. AAster tea two young men visited the camp, oo we spent the evening playing
crocinole until about midight.
when they took their departure.
When we retired for the night it was somen time retored fore the night it was
lief came to my relief, as the wind was sighing through
the trees outaide in a very weird mannor and the thought came to me, there we
were shut in tran wero shut in fram all neighbors, and
nothing but forsest around us.
wy
were tears were groundless for nothing happened.
Thoughts of this kind never enter their Chought of this kind never enter their
heads at the camp, for the parsats year-old boy sleeping peaceefully in the bed beside the window with a lantern
burring brighty, and, with the younger boy, walk to thand, wioarance we with any visitors, carrying a lantern for them, as they did one night with me when I
had been staying there one afternoon and evening. ths next morning we did not get up wit till late, and had breakRast at eleven
o'clock-the time I was uest then dinner on Sundays. Atter breakfast the three childran. the young lady aast my-
selt, went for $n$ walk, as the sume mas self, went for f, walk, as the sun was
shining brightly, the snow sparkling, shining brightly, the snow sparkling,
and the squirrels trisking gaily about
iust tempted one to

 drove up, so we cullo not leaveisitors
the evening the men began to return the evening the men began to return to
be ready for work exat day. The frst
to arrive was a a German, -such a rough,

 slunk into a corner and hardly spoke a
word unless spoken to, but it was nice
to note to note how kind my hostess was naice to
the men, enquiring all about the families and intersting hersbelit in the tami- in
every way imaginable, and althoush
 many slinies. No matter how, were rough
they were or appeared to be, she al-
ways had somethinct one, and. as I learned, one can seldom
judge ty appharances, as everylody has
 sonne good in him it we wererylody has
maxious to hunt for it.

wife to interest hersell in them minstor we hard to judge how true and tender were the hearts that beat beneath the
rough breasts of these men. Shanty life to a youth. It ite is the ruination of many downward course and is torced to drins hil
swear and swear and loarn coarse jokee.
he resist he thould "fire water" and then, whoured drink han his throat
rensoning rensoning powers, hits passions got the
mastery over him ind mastery over him and he fights to the
death.
Whan Mr. McDonald used to come home from. Mhe vinald used to come
his wite wa cenceile intoxicated, and his wife was compolled to hang on to
him with one hand and drive with the him with one hand and drive with the
other, I used to talk earnesty other, I used to talk earnestly to him
about his , weaknoess.
He seidd " "D despise mo mor kiving way to the crave
ing tor $\operatorname{ing}$ for liquor or passion ?" "No,"
replied, "I I do not dienp replied, "I do not deepise anybody for
such conduct, but have learnedd to very very sorry for them. Wearned to feel
Hene to ready to judge our neig. We are tod
stones at them ners and cast but we know not whon they are down, tation is. $T_{0}$ despise them weed tompmy frrst thought and the stories I read coming here to ter-drawn, but since that drink is the curse, and me plainly of its results can be over-drawn. You ought to be man enough, for your foung children's sake, to fight agourt
your temper, and passion for strong drink." He liquor, mine he never spent a cent up-
on liquor as soon we went suitup his horses at the hotel the men "triendly glass," and his wifo used a come home and tell us that although lage she a great many men in the vilhed to bo constantly dodging on and street or in the stores lest they tumble against her. The two magistrates were
powerless upon a man than the mooner laid hold over-powered them. The ministers mus just look quielly on and watch must
desperate fights.
The worst time was in the spring when the mon werse return ing from the shanties or wines return-
their pockets filled with One neighbor came home minee and bought his wife a nice hors very long be smashed the been back atoms and killed the horse buggy to
the poor thiving
turiously when the was the poor thing furiously when the was
drunk. to jail more who had sent her husband of having him cores once, and was tired
the chand and breaking the chairs over her head and smashing
things things in general. one day bound him to
the bect-poste with strong horse-whip, thrashed, with soundly that he was obliged from its
effoct antervards and in bed for three month work, but did not mind that all the Not satisfied with driking
they used to give it to their children One bright littue lad in the school used
to sing songe at the rough drunken men, and for every song
they used to whiskey or a to pive him a glass of Yancy your fair-haired, blue eyed, , roesy
cheekend placed boy of ten summers in such
His
hrother before him had done the same, and was with dififculty krough the sleigh or wagon, to be ents did the same. weakness, but fiespise thein for such minute. Would we not likely have done Sur infancy to do been brought up from all our lives among people who dived it,
had litile or no education, and no one
to dy to interest himself incation, and no one
duty to to toach us our them that ther Rather let us pray for
destroying labit may give up such destroying haer may. Ifive up such soul-
things, what have you you despise such
hone to prevent it ? This is a sole you done to to prevent
which we shoult, uto one nswer. should earnestly endeavor to It was the British who brought the
curse to the Indians by the rfire irse to the Indiuns wh whe brought the "firewater,"
it was they who brought the curte
thina hy the


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men we can hire. men we can hire.

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be crushed fiat by their idol-a house.
The family and the The family and the woman herself are
worth infinitely more than the houes and your description show the pose, bility of a houselkeeper getting tho chance to really LIVE. Thank you I

CILAUTAUQUA SCHOOL OF NURSING. Vear Junia,-In reply to "Siubscriber"g
Sister," Muskoka, she could not do better, it she wishes to become not do do than to take a course in the Chautauqua
N.Y.) School of Nursing (Jamestown. I have had experience in hospital traliing, and later studied with the Chautauqua School, and found the course thorough and complete. One could not help
but be successful, if the instructions in each lecture are faithfully followed. They are explicit and very defnite, and also teach the student how to gain practical
experience experience.
The Facu much interest in the student as though she were under their personal supervision. good salaries and stishool command goot salaries and ituatione-superinton-
dents of hospitals, etc. "A Nurse."
Perth Co., Ont.

CHOCOLATE CANDY, CLEANING KNIFE HANDLES
Dear Junia,-Could you kindly tell me
how to make chocoletes throngh valuable paper, and also how to clean the white cellulold handles of knives? Wishing you every success, E. R.
York Cou Ont. Chocolate Cara pan 4 cups granulated sugar,
a spoons glucose and 1 cup boiling water, and boil the mixture until it will snap
in cold water when tested. in cold water when tested. Next add 1
cup cream, piece of butter size of an egg and $\frac{1}{6}$ cake Baker's chocolete, grated. Boil, not too rapidly, until it will snap
in cold water ; then remove, in cold water; then remove, flavor with
vanilla and pour out. When cool, cut. up and wrap in paraffin paper. Croco'ate Cream Drops,-Take French

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be attached to your mower in a few moments with a wrend
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FOR SALE 0-H.P. Fairbanks-Morse
Stationary Engine Gane or cosoline Chierp.
 chooolato in a digh over hot water, themen
dip intito ot the creams, one at a $t$ time, on
dit a fork.
waxed paper.
ach is is coverad, slip it on waxed paper.










 luying a litiole tripoli with a mooller rag. But what on earth is tripoi, i?
Perhaps some reader who thas had ex-
 perience will enlighten us in regard to
the process or some other equally good. From "Lankshire lass." pleasant it is now, so I'll try and write again, and good day, how are you all getting along this long time? Just had
to come for another chat. foeling the lass was forgotten in in the the
feor Nook. Had little to write about.
There are so many good writers and what a help the chats are, and how
much I wish to help Poor Pansy. Were
I near much I wish to help Poor Pansy. Were
I near you, dearie, I'm sure I could in many ways. I wish you lived near me
and you could bring the little tots and sit and chat a while. And the other
troubled one, I feel so much por her ("One who sympathises."') Don't go
and give up, dearie. There are others and give up, dearie. There are others
in the same boat. Yes, many, and why one cannot tell;- only can say its the
nature. indeed, but down in his heart he values
your worth, I'm sure, and some time he your worth, I'm sure, and some time he
will perhaps forget himself and actuell praise you, and you will get such a sur-
prise that the tears will come of gladness, too. That come, and tears
perience of one just troub the experience of one just troubled like you,
and she says she can never forget how
that and she says she can never forget how
that helped her, those words that slip-
ped out. So I hope your cloud will ped out. So I hope your cloud will
show its silver lining brightly after a
while. How glad I felt. that yout to while. How glad I felt that you, too,
know what joy there is in Jesus all the
way. He will help if we trust Him. We can go and tell Him our greatest And whisper our hidden care;
Even to tell Him does bring relie? When the load is so hard to bear. And these trials here are helpful to
draw us nearer Jesus. When earthly friends fail, we can have comfort by
trusting more in Jesus, and when trusting more in Jesus, and when all go
and leave us to stay home alone, we can
have Jesus right with us to cheer us at h

How sweet is His presence by night and
by day,
by day,
For His promise is good, "I'll be with
you alway,."
Well, dear Junia, we hope you have
had a pleasant summer, and Hope, too.
What good your writings do and the
help each of your help good your writings do and the
hou gives. How kind of you
to speak of me in a recent Quiet Hour to speak of me in a recent Quiet Hour.
It is sweet to be remembered. It cheered me so much; also the nice visit
I'll have to tell you about of "Ana", and her husband and little girl. "Anna" surprised us by coming to see us in
their fine new auto, and how 1 enjoyed the visit and was so, glad to be able to to
be up that afternoon, as not can be up. Her visit cheered me so.
She is just the same kind friend and so
jolly
 me orss and thank everyone for writing
membering me in any many blessings come my way and nice
reading sent, too. I would be pleaserl
to know where Q know where one could get a beoker or
papers with strories of

waifs are helped. | waifs are helped. I like that kind oi | It |
| :--- | :--- |
| reading, and it generally has large print. |  |
| Thanking anyone whe |  | Thanking anyone who can tell me where

they can be obtained, I'll have to wlose.
I have been so long at this I

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Important to the Women of Canada

 nice front yard, a pertect show of bloom.
Can't have it now Hoping all the Nookers have a happy summer, for it is passing so quickly, talii wiil, for
be with us now. How pleasant this be with us now. How pleasant this
cooter weather is after the heat. K Kepp cooter weather is atter the heat. Koop
emiling away all who coan-it helps so much, So boo-bye again to all
YOUR SHUT-IN LANKS
YOUR SHUT-IN LANKSHIRE LASS.
Wellington Co., Ont. Wellington Co., Ont. Can any of our teaders supply the reading matter asked for by our shut-in
triend? If those who have it will atply to me, I will send them her address.. if they will send it in care of me, I
forward it without opening parcel.

## Easy Jelly Making

Girls, have you had trouble in making
jolly ? asks Mrs. Rose Seelye Miller, in oho Farmer." Man new housewives
do. I did, but I have learned do. I did, but I have learned how to
mate it with very littlo trouble or
bother. bother. It is as easy to make good
jelly as to cook a good dish of apple sauce, only it takes a few minutes longexactly the following rule, you can mako jelth of a delicious fineness and color and taste. When you cook the fruit, use Just a ititle water, because the water
has to booked out $;$ the more you
put in the more you will put in the more you will have to get
out. Use your over-ripe mussy fruit for out. Use your ver-ripe mussy fruit for
jam, but take the best there is for jelly. - thirty-minute jelly.

With many fruits you can make jelly in thirty minutes irom the time you put
the fruit on the fire until you have the liquid in the glasses. It it easier to do
it slower : Iet the fruit heat slowly then boil briskly until very soft. $\begin{gathered}\text { But you }\end{gathered}$ can put the fruit on over the fire with
just enough water to keep it from bur just enoush water to keep it from burn-
ing, bring to boil cuickiy, and boil
hard until very solt hard until very soft. Hard boiling
makes
fruit makes fruit go to pieces, and that is
what you want. The less time spent in coking fruit, the better the flavor of the jelly.
Grapes, $\begin{aligned} & \text { Now for the rule. } \\ & \text { Apples, } \\ & \text { Currants, }\end{aligned}$ Quinces, Grapes, Apples, Gurrants, Quinces,
Graen Grapes, Greenish Plums,
etc.-. Fix or the jelly by having them clean. You need never peel anything for jelly, for the peling gives it color and flavor.
Stem grapes and currants.
Bring to mash them up if need be to eextract the ; juice. Put the cooked fruit in a bag made from a piece of cheese cloth cut
square, and sewed up diagenally so the square, and sewed up diagonally, so that
it is something like a cornucopia. ten the bag to same convenient place to drain, or it you are in a hurry, squeeze
the juice out. This gives yon the juice out. This gives you a good
deal more liquid it jelly is what you are
aiter, and it it ill after, and it jellies quicker it it is
pressed some, but the jelly is not considered quite so nice, but it is extremely good. When the juice has dripped out
or been pressed out, measure it
 you have juice, and put this in the oven
to heat. Let the juice come to a quick to heat. Let the juice come to a quick
boil uncovered, and boil 20 minutes, no more, no less, then add the hot sugar, more, no less, then add the hot sugar,
and liet boil up.
minutes ofter it tairly hoils, if the sumar
cook it minutes atter it fairly boils, if the sugar
is melted.
Skim onf in is melted. Skim of any scum and
strain into glasses, and you are done. Many times the liquid will drip like jelly at once, but many times it does
not get real hard for not get real hard for ia few days, and it
is better so, for it it hardens at once it is apt to get very hard if put away Do not cover soft jelly with parafin untin it haverens son when it ith poesrainn
melted parar melted parafini over the top to keep it
from getting any harder.
It can be trom getting any harder. it can be
litted off when the jelly is wanted for
ued Many Iruits will not jelly alone: with
these a sour, mild-favored apple juice should be used, half and halt, as apples have as much jellying property as any known fruit.
You can use apples whole for jelly, must never be used with the seeds in in Tor these have a peculiarly viscid quality
that prevents anything trom jellying that prevents anything from jellying.
Otherwise this truit iellies easily, and Otherwise this fruit jellies easily, and
makes the most delectable jelly known. The juice from cooked $/$ parings of quinces
when added When added to apple juice will favor the
jelly richy.
Peach juice and apple jutce make a delicioush jelly, pinineapple and and
apple, raspberry and currant and so on

Sixty of the visititing. geologists from
all parts of the world visited Sudbury
all parts of the world veisted sudstrury,
Cobalt, and Porcuupine last week.
The Doukhobors. who some. time ago
abandoned their homesteads in ag katchewan becuse homesteads in Sas-
become Coere required to $\substack{\text { become Canadian citizens, eventually } \\ \text { settling in British Columbia, are asking }}$ $\$ 450,000$ in compensation for theif firteen years' work on the land. Their
religion forbids them to swear allegiance religion forbids them to swear allegiance
to any land.

The King's Prize for shooting at bis
ley has been won, ley has been won, for the fourth time
by a Canadian. William Hawking, of by a Canadian. William Hawkins, of
Toronto, is the winner this year.
british and foretgn. The Culebra Cut of the Panama Canal The discovery of a microbe, said to be the cause of rheumatism, is reported It is probable that the United States Mexico. The shooting about peace in States immigration inspector has brough about a crisis, and the Huerta regime is
believed to be on the verge of a fall. is

The British House of Lards, on July 24th, rejected the bill to aboilish plural

Mrs.
Hollowankhurst was reteased from Holloway jail on July 24th, after a few
days imprisonment, and underwent an operation on July 25 th.

The city of Nanking is reported to be in the hands of the Northerr faction in Chinal. In September, 1912 a charter
was granted to
Dr. Sun Yat Sen wathorizing him to carry out the construction of a railway system, covering 70,000 miles of territory in China. Last
week this charter was cancelled by week tuis dhi Kui. A sack of earth from Portugal has been sent to London in order that ex ground" while he is being married, on September 4th, to Princess Augusta Vic The Senato of "Wisconsin has pased the Eugenics Marriago Bill, which pro-
vides that a health certificate from licensed physician must be presented to
the clergyman by all couples be the be married hy himper who come to be married by him, A somewhat
similar bill has been passed in Penneylrast
Last week Turkey officially declared the Turks in renccupyping Adrianople, has, however, hastened a crisis, as it has
been looked unon as Europer On July defince of all Hungary notifind Greeco and Servia that
further weakening of Bulgarie be permitted, and steps will probably. be talyn to arrest the advance of the Turks. $\mathrm{In}^{\text {In }}$ the meantime Greeks and
Servians continue to renort atrocitices committed by the Bulgarians. Huccireds
of men, women and children. they of men, women and children, they say.
were massacred by them at Doxatos on Jere massacred by them at

The Windrow
In India, butter is now being put up
in collapsible tin tubes, the best so far discoverad to prevent its deter-
ioration becanse of the intenso heat.

Avaitor Claude Craham-White predicts
that ten years hence there will be be heavier-than-air fiyng machines capablo
of carryins an many of carrying as many passengers as an
average ocean steamship.

9,000 date palms from Arabia have
been planted in the Coachella Valley


## An Important Announcement

SUBSCRIBERS of this paper will be glad to learn that they can now procure the Renfrew Handy Two-Whee Truck Scale withoụt difficulty. It can now be obtained from any agent of the Renfrew Machinery Company, Limited as this Company has lately taken over the products manufactured by the Renfrew Scale Company.

## TreRenfrew ${ }^{\text {Imand }}$ Two-Wheel Truck Bale

is a worthy companion for the Standard Cream Separator and the Renfrew Standard Gasoline Engine-the two famous products of the Renfrew Machinery Company.

If you have experienced difficulty in procuring or in seeing one of these scales because of the lack of representation in your locality, drop us a line, and we will tell you the name of the nearest agent of the Renfrew Machinery Company. We have fifteen hundred agents in Canada, one of whom must be quite handy to you.

The Renfrew Handy Two-Wheel Truck Scale is a scale and truck combined. It will pay for itself twice over in a very short time. No farmer can afford to be without one any more than he can afford to do without a close-skimming cream separator, like the Standard, or a labor-saving engine, like the Renfrew Standard.

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THE FARMEI'S ADVQCATE.
Penny-wise and Poundfoolish.
$\qquad$ meeting of the Pleassant Valley branc
of the Women's Thnstitute.) As to who first colte am not propared to say, but as to its truth, as exemplified in our own and our
neoighbors. itives, I believe there con be
no guestion no quastion.
 tion shews that the peuniary is onsidera-
of its is many sidies, and perhaps not the
onst important. Io wonder is. there one of us who has
not hat cause to remind herself that the
cheapest arse cheapest artice of its kind hersali that the not always
the one for which the one for which we pay the least
money. When the gown, the glove
the shine the shoe, that we such, a bergain, has
gone the way of most hargains rowfully quote our title orgains, to-day sor- or
Derhaps that other parhaps that other common one-"A. A or
and his money Not only in our purchasing, but in our
work of every day, we see it. In these days of more or less intensive farming, of our farms. The corncout and root eroops are matters of lively interest to us, as
well as to the farmets. well as to the farmers. proper. Now, Nif
the tarmer should say, when preparing
 fertilizer-the soil will have to do iots
best without any more; $I$ I cannot afford
to

 seeing orange grovee that were pictures
of beauty, full of of truit. Then perhaps the the next place
would have
 When she neither flowers nor fruit.
difiference, eaked the reason for the In the latter case they had "Water." by saving the case they had oconomized irrigation and, in
conseoquenge conseequence, had no returnis to pay for
enjthifge. enjthings
Haven't
It rankl extrau knownane peoplo who thought
table buy fruit table e Their hands wouy fruit for the
horror when they heor in horror when they. heard. ol a ne niphbor
buylng \& dozen oranges or bananas.
But thes.
 woulid pey formur, a doctor's bill tha
crate po or ounch of bananas or a potatoes and pork had had its tret of
effect.
While it is quite possible to spoil
terials by mixing tood stuff tiberal with too hand too that the miserly hand wastes materials
 serve its purpose, it must please the
eye and the palate, as well as contain the elements to bouild up belood, contain
titssuue. Now, if we say, o.This and reand
collo calls for milk, it wot we say, "This recipe
using water," or "، $\mathrm{T}^{\prime}$ Ill save a little by ssing water," or "I'll cut a cut dittle by
cup of shortening to a quarter,", or halt
eug egg or so lesse will not count in the "an
hut
hat Sut will in the eqg-baskent," in the care product will neither look ${ }^{\text {an on our finishod }}$
taste as good as it should. (Nor possoss taste as good as it should. (Nor possess
so much nutriment.-Ed.). in furnishing our hames. the same mistake can save the cost omes. htis or the think we
which would lighten our labor tutensil Which would lighten our labor. Nothing
is an extravagance that helps to litht the
burden burdens of the home-maker. The cis-
tern a and sink, the lift from the celliar
the the doorway which saves a d dozen cellar,
betweps
between stove
and
pantry, the and wringer, are only a few of the washer
ways of spending the pennies and semyy the pounds.
the may be that our false economy takes the shape of doing without necessary
help. In these days of scaree help. In these days of scarce necessary an-
competent
cond
maker tomestic workers the thinks thet theme maker thinks that she cansot paye the
price for such help as she can pat the
oorries slon

 | $\begin{array}{l}\text { dropser } \\ \text { tender } \\ \text { either }\end{array}$ |
| :--- |

 struggle back to her feet again. That to ther
is peny-wise and pound-foolish with a
vengeance. Not only in our work, but in our play,
do we display the same foolish policy,
Perhaps som Perhaps some of you read in a recent
Sunday School weekly of the girl who
wore and did her seco
portunity to come elong. Wo rather do
spise the small pleasures life offers cause we are looking life offers. bo greater ones. The old Yorkshire the rule for eating his apples held a man's deal of philosophy, "Best first-best good ways. In our relations with others chances to do small favors are our gerded because they are small." ${ }^{\text {are }}$ disre
Do wer realize ver realize how helpful an appreciative smile may be? I have known of
was more spent to bury the dead there there had been in years the dead than sion of appreciation be withheld uxpes our friends have gone beyond hearin Give me your handful of roses now, to bury me under. The first them up dandelions of under. The first yellow times as much to me now as all the
flowers of earth will closed of earth will do when I have
cyes to all things Let my eyes to all things earthly. sion of our text: "There is that seat tereth and. yet increaseth; and scatis that withholdeth more "than is meet.
but it tendeth to poverty."

## Household Efficiency.

paper given, at the St. Mary's branch
of the Women's Institute by Mises So by Miss Sarab least, there is a great deal of tefiency-at efficiency in the manat deal of talk about in the handling of men and in the per being the money put is the home offcient for not merely value in housing and furnil in the output, the real living of our The and our children ?"
ing the work of houselkening is systemiz strating the saving poping and demon Where routine can be succossfally em ployed, and the step is a natural and world is making. $\begin{aligned} & \text { nind of progress the } \\ & \text { Haphazard }\end{aligned}$ are being done away with in trastines and there is no reason why they businould big business, hore. Houselceeping is hig business, tor no one will contend
that there are no great difflult iee
no surmount in an occupation which includes not only the financial future of a family,
but its physican. well. 1 .ts physical, mental and spiritual as Many women have yet to learn that
housekeeping is a business in which they Couse eaeping is a business in which they
can mones by saving it.
Co tontrary money is not a pering diffeult task the of one is willing to works, the real timporis ance of finances to the man or woman
is done with that is earned-how far che the money atter it not merely in paying household expenses but in placing part of it so so that it will
begin to earn intenses self. In the effort out of housekeeping, an effort a business coming a part of the creed of every enare continually defeated to-day, women sentiment that there really the general any rules to govern the home; that hall
the satisfaction of the being an easy-going place, the men its
the house home in the house having a very definite idea am sorry to have kept you waiting,"
they say, and expect that to close the
incident pleasantly. incident pleasantly.
The women who place as manager of her houspleteld ry her
high above women in other professions,
for or she has learned to do not one' thing, be of the most her executive ability must realize the ideal in the working out of
her domestic her domestic big business. In house-
keeping woman has five or six prose sions. Wheman mast five or six prowes- something of fi-
nance, of household hygiene, of cooking of serving and of sewing, and cooking,
things aro interesting only when the
given their given their truesting only when they are
endeavor. Whe value in the world of endeavor. When the business of of of the
household is as efficiently managed
say the say, that of the Departmental stores,
women employers and domestic
will will find houseloye-work domestic workers
paintings are interes paintings, are to the artist and experi-
ments to the scientific investigator

THE FARMER'S ADVOCATE
 SEALED TENDERS ADDRESSED TO at Ottawa until noon, on Friday, the 22id August, 1913, for the conveyance
of His Majesty's Mails on of Hisct Majosty's Mails on a proposed
contract for four years, six times per mete over rural mail route "B" from Bttrick, via Arva and Ballymote, Mid-
desex. E. R.; Ontario, from the Post-IVister-General's pleasure.
Printed notices containing further inTormation as to conditions of proposed
contract may be seen, and blank- forms contract may be seen, and blank- forms
of tender may be obtained at the Post Otice of Arva, Ettrick, Ballymote, and at the office of the Post-office Inspector at London. G. C. ANDERSON,
Superintendent Post Office Department,
Mail Service Branch,
ottawa, 8th July, 1918 .

## 

## MAIL CONTRACT

 the Postmaster-General, will be red To at ottawa until noon, on Friday, the 23nd August, 1918, for the converenceof His Majesty's Mails on a proposed contract for four years, six times per ofer over rural mail route from Ilderton (Bryanston), Middlesex E. R. (No. $\cdot \mathbf{E}$ ),
Ontario, from the Postmeater-General's Ontario;
Printed notices containing further information as to conditions of proposed
contract may be seen, and blank forms of tender may be obtained at the Post the office of the Post Offce Inspector at Condon.
C. ANDERSON,

Poot Offce Department,
Mail Ser
Be Branch,
Superintendent


MAIL CONTRACT
o pod TENDER ADDRESSED TO at Ottawa until noon, on Friday, the 2nd August, 1913, for the conveyance of His Majesty's Mails, on a proposed
contract for four years, six times per ceek over rural route "A", from London
Masonville), Middlesex East Riding and Masonville), Middlesex
Condon City, Ontario, Riding and
from the Post-master-General's pleasure.
Printed notices containing further incontract may be seen, and blank forms of tender may be obtained at the Post Once of London, Broughdale, Masonville,
Fanshawe, London West, and at the ranshawe, London West, and at the
offce of the Post-Office Inspector at G. C. ANDERSON, Post Office Department,
Mail
$\frac{\text { Ottawa, July 8th, } 1913 .}{\text { FAL L A D W INTER }}$ MilK or Cpeam WANTED
You have got to feed your cows in the winter
cime whether they are milking or not, so why not arrange to have mone miking or or not not, so why not
price we pay for winter mill end crang the high We take all that you produce.
Furnish cans for millk. Pay on the 10th of each month. yinter contracts start November 1 st. Make up
your mind
now. Wrat once. We are receiving applications Mark the envelope
Dept. C.
GITY DAIRY CO., MITCHELL SLIDE-EASY以 THES

How many women have ever attended a
conference of the management on hoose
work and hosehold worker h housy
should there be no such conter Why

Do women housekeepers belong to the
only Guild the members of which
teach teach each other mombers of which can is there is no such Guild. ? Artists neuber
leave off studying; the doctor leave off studying; the doctor who learns
nothing forgets what he used to know
both nothing forgets what he used to know; of their fellows. Women will ha
study house-work study house-work and household workers
in the same way *Ten minutes' $r$ hard morning's rest in the midst of Rest must be taken where the sir pure and plentiful; rest must be mental benefit in resting the muscles is little rying the brain, and there is small woi dom in relaxing the mind and muscles stomach is the firebox of the soul : The simple construction patterne soul; it preme Master. Your stomach is Susuccess. . Nothing can replace a ruined
stomach. Think of this when you huri stomach. Think of this when you hur-
riedly throw into its marvelous pocket
ill ill-selected and quickly-masticated pocke Think of this when you neglect its call for regular fuel and regular care, Think of this when it begs for rest.
Respect your Respect your stomach, morning, noon
and night, and between times. Do you know how to throw thinge away? How many of us have closets rets filled with troks and chests and garis the time it has eaten up and the value eble house room it has filled? An important duty of the houselkeeper in the cold weather is to see that the house is
properly aired and ventilated room that is occupied should be thory oughly, aired each day. One can keep warmer in a room filled with pure air in a room where the temperature is much higher and the air impure. If
there is $a$ window in the upper hall there is a window in the upper hall, or in a room opening of the hall, which keep the air of the house pure. In no part of the house is there greater necessity for constant watchfulness than in the cellar. It should be
thoroughly cleaned twics summer the windows should be opened every night and kept closed during the
day time. By opening the wind day time. By opening the windows at
ight and closing them in the cellar is kept dry, cool and pure,
 screens in the cellar windows. Cleanli sass is now regarded as a necessity to
sanitary living-not a fastidious notion of the over-fussy.
The sink should be absolutely sweet at
all times. To keep it in this condition requires systematic watchfulness. Liquid grease will cause serious trouble if it is
allowed to remain and cling to sides of pipe. It is beyond the plumber's art to of every housekeeper to avoid it. The sink should be treated with a hot solution of washing soda at least once a
week. All the ptumbing is better for being rinsel with a hot solution of soda,
but of the house except the sink.
To prepare the washing soda for pipes, cover one pint of soda with three gal-
lons of boiling water and let remain The fre until all the soda is dissolved.
the fire this boiling hot into the pipes.
Pour The sink pipess should be made warm by pouring boiling water into the
pouring in the hot solution.
Everything should be done to dispose of the household refuse in the shortest
period possible. If it must be kept on the grousds, sprinkle , it generous ead
day with lime. The purifying effects of
should no sunshine
be forgotten.
Let it pour should not be forgotten. Let it pour
into every nook and corner with its dis-
infecting powers, that it may overcome infecting powers, that it may overcome
and banish three arch-enemies-darkness, dampness and dirt.
The untidy domestic fly is a problem
虽 that the housekeeper has to deal with,
because it has been discovered that the fly is one of the worst enemies of man-
kind, carrying disease germs and doposit-
ing them wherever it alights. Keep the ing them wherever it alights. Keep the
$\mathrm{a}_{\mathrm{y}}$ out of the home. fly out of the home.
Do not forget the cleansing and airing of the dish-cloth daily. Have you ever
considered how much time you spend in


Give these stockings and socks the hardest wear hose know. They
Buy Them for Style and consider the 6 months' wear merely an extra ad vantage. Could any but the best in a product gain uch an overwhelming preference!
We are maling a wonderful hose In Holeproof. Walk in them, dance
in them, play tennis or golf is them.

## Holeproof Hosieng

 Every stitch is guaranteed for sis ponthe; not just heels and toes. Here for men and women, three pairs of sill Holeproot Hose for three monthe Silk From JapanWe could buy common silk for Holeproof. But we send to the North
Japan for ours, for there it is grown as it is nowhere else. 74c Cotton Yarn We could buy ordinary cotton yarn for as low as thirty-two cents spection department alone cosis us $\$ 60,000$ a yee
For the past thirteen years, since Holeproot were first made, 85 per cont have outlasted the guarantee. The above flgures refer to Hole proor as made in. the States and Canada. Try It-buy six pairs of
Holeproof today. See how they are wearing six months from today.

Sold in Your Town
The genuine Holeproof are sold in your town. We'll tell you the
ealers' names on request, or ship direct where there's no dealer near, charges prepaid, on recelpt of remiltance. Sis pairs of cottor near guaranteed six months, for men, cost $\$ 1.50$ to $\$ 3$ per box; for women and children $\$ 2$ to $\$ 3$ per boz; 3 pairs for childrent, $\$ 1$ per boz, thiree Chree palrs of silk Holeproof guaranteed three months, for men colors. vomen, cost $\$ 2$ a box for men, and $\$ 3$ a box for women. All colors. Cedium Cashmere Socks for Men, 6 pairs $\$ 2$-fine Cashmere 6 pairs $\$ 3$. Women's fine Cashmere Stockings, 6 pairs \$3. 6 pairs of Cashmere are
guaranteed six months. Write for free book, telling all about Holeproot. HOLEPROOF HOSIERY CO, OF CANADA, Ltd. 313 Bond street, LONDON, CANADADA, Ltd. (ais)

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FOR FALL WHEAT
Is not an expense but an investment which will yield anywhere from 20 to $200 \%$ interest.
Write for Price List and Booklet. ' 40 Years' Reputation behind them GUNNS LIMITED, West Toronto


Is the most up-to-date
corn-harvesting machine on the market to-day.
T is constructed on the inclined
elevation plan. This does away with unnecessary parts, and makes it easier for the, machine to
cut and bind the corn.
The MASSEY-HARRIS CORN
BINDER is the only one of its type that has the poly one of inside the
main wheel. This distributes the main wheel. This
draft more evenly.
Wheels are well apart, and all
working parts are very carefully working parts are very, carefully baianced in regard to their relative
positions - danger of overturning
while working on side hills.
Cu. on dide.
Cutting apparatus culs, and does
not tear up the stalks. Side knives give a shear-cut, and the regular
sick or smooth sick or smooth knife finishes the
cutting. cuting.
Conveyor fingers carry bundle to
knotter, and automatic gates (fouind knotter, and automatic gates (fouind
only on the Massey-Harris) release
the fing the fingers before the needle passes around the bundle. There are no
packers to knock off ears and packers to knock off ears and
waste the corn.


Machine is 5 feet 11 inches wide,
and will easily and will easily pass throúgh ordin-
ary farm gateway.
Massey-Harris Co., Limited Head Offices: TORONTO, GAN.
 AGÉNCIES EVERYWHERE


MAIL CONTRACT the Postmaster-General, will be red TU at otawa until noon, on Friday the 22nd August, 1918, for the conveyance of His Majesty's Mails on a proposed
contract for four years, six times per woek over rurai mails, route "D" from
nlderton (Salmonville), Middlesex E. R., Ontario, from the Postmaster-General's Printe
Printed notices containing further in
ormation as to conditions of proposed contract may be seen, and blank forms
of tender may Office of may be obtained at the Post the office of the Post office Inspector at
London.
G. C. ANDERSON. London.
ost Office Department
Mail Service $\begin{aligned} & \text { Branch, } \\ & \text { Ottawa, July 8th, } 1913\end{aligned}$
COMPLEXIONAI COMPLAINTS
Are our specialty. We treat successfully
at home pimples, blacheads, eczema,
alotches, rashes, discolorations, and re-
blo at home pimples, blackheads, eczema.
blotches, rashes, discolorations, and re-
move permanently Moles, Warts. Red
Veins, Superfluous Hoies "F" mailed free. HISCOTT INSTITUTE, College Street, Toronto.
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Milk Wanted 20 Ayímer Ave. ${ }^{\text {WALTER }}$ N. KNIGHT Windsor, Ont.

 wall, and the cupoard or titchen cabi
not convenient to the range, phich will
to


 arro aterrarcas it savee waphing a cloth and oven this slisht offort is morth the Don'ts for the Kitchen-
 and aeve it. Don't throw amay colery leaves. Dry
them it the oven for flavoring oupp and mainem. $\begin{gathered}\text { Dont throw away the water that vego }\end{gathered}$ Don't throw waty the water that vego
thalese have beent boiled in. When addoed
 Don't throw amat piecea ot dry bread.
Crind them in tho tooc





 tuizing dith
Dort toil ogss on the range. Have a
sancepan, in
in
 Solling water, cover and place on a
board or aneper board or paper away trom the fro for
hen minutes.
This is
is an idoaly
oottcooked egg.
Don't neglect your refrigerator. Clean it daily, and twice a week place in it a great aid in keeping it sweet.
Don't let the inside of you
become incrusted with lime. A clean
oyster-shehl kent in
oyster-shehl kept in i alects this lime
and may be thrown away. Don't fall to rinse the tea-kettle away. three times a dail to and fill with fresh water. Don't use water that has been boiled twice for making tea. For good tea, kind of food or drink made with boiling water should be made with water that has been freshly boiled. Every woman
should know that after water bubbles, it cannot get any hotter. Don't fail to wrap cheese in a cloth
wrung out of vinegar. This keeps it fresh for a long time.
Don't have a toe Keep turning it when you are sweeping
Soak a now brour Soak a now broom in a pail of bioiling.
water for a few minutes. Shake well
and han and hang up to dry. By treating your
broom in this way, it will sweep cleaner and wear longer. Make bags for the
broom. Put a few drops of broom. Put a few drops of coal-oil on
bags and dusters. Roll tight; keep in
drawer. Then they are always ready for use. The dust clings to the cloth when treated in this way. Have a long windied broom, put a bag on it for
Waste is ceiling . sin agningt There would be a penses if each housekeeper thoroughly
understood the proper manipulation her kitchen range. A proper manipulation of tance with the drafts and checks is im-
and perative. When the range is free from
fire, examine every part fre, examine every part of it, open and
close the drafts and checks until you come familiar with their workings. Examine the grate to see how the contents are dumped and the ashes removed
without disturbing the fire.
There is no greater aid to economy
than a regular system of keepinct counts. Cash accounts are the best,
matter how simple or elabor matter how simple or elaborate the sty
of living, each housekeeper should mal up her mind that the expenses should
not exceed the inco not exceed the income. TThe shousehold
dependent on bakery products hour the road to thritt. Neither are they
who buy in small quantities. In June
have your butter packen in small It keeps perfectly, packed in small crocks.
the last if the cret
Ine he last if the crocks are inverted in a
larger one filled with brine. To every
gallon of builiny water.


WINCHESTER

"LEADER" AND REPEATER"

## SMOKELESS POWDER SHELLS

No matter whether your favorite sport is field, wild fowl or trap shooting Winchester loaded shells will he fullest measure of shooting satisfac tion. No shells will make a good sho out of a poor one, but shells that are loaded so that they are uniform in veloc ity, spread the shot evenly, and give pood penetration help wonderfully to make good bags in field or marsh and high scores at the Wincheste shells embody all these mportant elements. /be sure and get the w brand

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Mraft one oldest manufacturers of Manure Spreaders in the world. Strongest Spreader built.
Sharpening, Graded, Flat Tooth. S. Kemp's Patented Reversible, SelfHandles all kinds of material found on the farra, even clear gum or
rotted material. This is the only Spreader that will do it satisfactorily. Write to-day for catalogue and J. S. Kemp's article on Saving and
Application of Manure. The W. I. KEMP COMPAUYY, Ltd., onemsind st. Stratiford, Ont. Cockshutt Plow Co., Ltd., Selling Agents for Western Ontario
Frost $\&$ Wood Oan

"Clay" Gates
 Smadi zono siditiat cant The CANADIAN GATE CO. Ltd.
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Farmers' Handy Wagon Steel Wheels



atir well noxt daty. Mixix all in a crokk;
 than hall (ill the crock to leave room tor
oggs.
(We should bo pleased to hear
and trom readers who have used the water
thass method The canned vogetables on the markeet
 and corn are all very easy to can.
Eight pints of corn, one cup of satt, one
 and lot boil one hour. Put in glase
lars and d eal Flour. sugar and Roap ahould bo
bousht by the hundred. bought by the hundred. 1 It is alioo
chanerer to buy apples and potatoos by
the the barrel.
The progressive houeskeper must be


 oggs in intreen seconds and whipe cream in one minute.
On the market. One the vacuum leaners



The Fireless Coker really proves worth
while,
and
tits
value
is recosinced every user of ona. Its experimentat





 and loge as to the proper length of time
required for the various foods?
This, ot course, should be considered and some
 concisely, these are the principles and results in Areleses cooteryy, radiation and
conduction are overcome
 tain all thair Juices, moist and dry hat are both avalablee. The occonomies ot
 labor and health. Where is the woman
who does not consider these savings who does not consider these savings
worth her study.
The Bread Mixer insures good homemade bread. The bread is not touched by the hands, except to mold it into pans. Have a box that the
mixer will fit into and a dairy thermomixer. Put glass jars filled with hot water into the box. Keep the yeast,
flour dough and box at cheese heat unflour dough and box at cheese heat un
til the bread is ready for the oven, Warm the bake-l,ard and bread-pans. Belore taking bread-mixer out of box to mold dough into pans, have the oven
hot. so the bread will brown in ten hot. So the
minutes after it is put into oven. Then cool the oven a little and bake twenty or twenty-five minutes after cool ing oven. I use the water that four or
five potatoes have been boiled in. One Iive potatoes have been boiled in. One
quart of liquid, two tablespoons of quart of liquid, two tablespoons o
mashed potatoes, two tablespoons o melted lard, one tablespuon of salt, four tablespoons of white sugar, three quart
of "Five Roses" flour, or two sitter of "Five Roses" flour, or two sitters
full (sift twice), half cake of Royal Yeast. Put the yeast into half a cup
of the warm diquid. When dissolved of the warm diquid. When dissolved,
add it to the remaining liquid with salt, add it to the remaining liquid with salt,
sugar and one tablespoonful of flour. sugar and one tabight. In the morning put the lard in mixer, then the yeast, flour last. Turn the crank about five
minutes or till the dough is a compact ball. Put on the cover and set com-
plete machine into the box. When the plete machine into the box. When the
bread has risen to twice its bulk, it it ready has the pans. It takes about
read thre the
thre three hours. Cut the batch into five
Mold; do not knead; put into pans, alMold; do not knead; put into pans, al-
lowing it to again rise to twice its bulk; then it is ready for the oven
When you take bread out of the oven When you take bread out of the oven,
rub the top of the loa with melted butter. Set on a cooler out of drafts. Do not put bread in a box until it is
cold. Bread will keep better in wood cold. Bread will keep better in wo
than in a tin box. It housekeepers wrong they do themselves by being without them, they would cer
make a study of household devices.

## TURI WASTE LAKD INTO PROFIT



You are losing money every day by allowing stumps and boulders to occupy the richest and most productive parts of STUMPING POWDRR? The
quickest method known for clearing land
Write to-day for our Free Booldet
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Vlotorla, B. C.


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N10 Other Spreader Has Two Cylinders and a Distributor THE New Idea Manure Spreader has three times as good a pulverizing system as
ordinary single-cylinder manure spreaders. Thingle-cylinper cylinder of the New Idea pulverizes the top of the load and the lower cyinder the bottom-doubly as sure as the single-cylinder method. But if a chunk of manure should happen to squeeze butor the sharp-pointed cylinder teeth, the knife-edged.distrias the single-cylinler

## the single-cyinder method. These distributor paddles of the <br> New Idea

## Manure Spreader

are set at an angie and spread the manure like a showe an dread wider-guaranted to cover the wheel tracks. The Ne have the only spreader with any radical improvments. Other plaining ful, steel-wheel, low-down

Tudhope, Anderson Co., Limited M. MOODY \& SONS CO., TERREBONNE, OUE.
Selling Agents for Province of Quebec.

Euestions and Answers.







## Fertilizer for Fall Wheat

What fertilizer is best for fall whee I intend ploughing down some sod Ans,-A complete fertilizer. buy any one of several good brands
on the market, or you can buy on the market, or you can by
the ingredients and mix one yourself containing: 75 to 120 mix one pounds nitrate of
coda or 50 to 100 or
soda ammonia; 200 to 800 pounds sulphate ocid phos
phate or 250 to 400 pounds basic slan phate or 250 to 400 pounds basic slag, or sulphate of potash. if muriate of soda is is used, yotash. If nitrate
mix only hal of better it with the other elements, and apply the balance of the nitrate as soon as growth commences
next spring: Nitrate of soda is very soluble and subject to waste.
Pall Planting-Wheat after Millet1. Can young maple trees be planted
out in the fall, and, if so, what month is best?
2. Have a field which has been month for the past a fwo which has been in oats
this summer I manured at rate of 10 tons per acre and
sowed Hungarian. Would this suitable for wheat after the hay was taken of it? If not, what crop should
be sown on such land? What depth
should should ground be ploughed for wheat depth
8. If fertilizer is grain with an ordinary drill, whictrom should the grain be sown-crosswise or
the same way?
R. M. A. Ans.-1. Maples may be $\begin{gathered}\text { R. M. A. A. } \\ \text { transplanted }\end{gathered}$ in the early fall, but as a rule early spring planting is best.
2. It would be too late to prepare this flete satisfactorily for fall to prepare
sow it with assurance and would have a better chance; but perhaps you do not care to grow this crop,
Failing this, try spring gre Failing this, try spring grain. As a
rule, we favor fairly deep plowing for
wheat, providing it is done early and the land well worked is done early an
avoid afterwards $t$
avoid leaving furrow slice.
3. Broadcast the spaces beneath the 3. Broadcast the fertilizer if possible,
If not practicable to do so with your drill, we think we should prefer drilling
the fertilizer crosswise which the grain is to be drilled have never had experience on this point,

1. Pysentery in Calf-Pin-worms. case of dysentery. The one referred io
is between six and seven weeks old. 2. Give a remedy for small. white
worms in a horse, without injury to the Ans.-1. The remedy depends w. D. C. cause, which you omit to indicate. We
presume ycu are feeding the presume you are feeding separator milk
nnd possibly giving too much at a time
freding reding at irregular intervals or at at
varying temperature, unclean pails. Remove the perhaps from
sible, and reduce the sible, and reduce the quantity of milk
fed for a time, whether the quantity
seemed excessive grod practice to or notean out the is often
with a laxative of one to castor oil shaken of un in milk, ounces of
the omending cause remove Che offending cause from the intestines.
Various remedies to follow the are advocated. One of the simplest was
recommended by an Alberte lecommended by an Alberta doctor for
scours in all kinds of young stock
consists of consists of a cupful of black toa given
nearly cold.
it is any an do not know whether
$\qquad$
$\qquad$
 Water, 1 pint.-Give a e talhespeomin
night and morning, following the effect the castor oil purgative.
2. Inject into the rectum $t_{\text {wo }}$ ounces

oil of turpentine, well shaken | $\begin{array}{l}\text { oil of } \\ \text { pint of } \\ \text { worms. }\end{array}$ |
| :--- |

## SAVETTICHORSE K4

From the Postmaster at Cobal Troy ChemicallCo., Toronto, Ont: May 9th, 1913.
 II have just used your Spavin Remedy on a bone Yours truly. J. F. PReSLEY. Never mind past failures. Don't rest satisfed
antivy you learn about Save the Horse.
Write tract and Advice Alit

$\qquad$
Druggiste Sell Save-the-Horse With
Contract or we tend io Parcel
Post or Epree Prent


SWEET MILK WANTED

Shippers required to send milk dally in eight
gailon cans to Toronto. Good prices. Write
for particulars trat
S. PRICE \& SONS LTD. Toronto

G $1900^{\circ}$
Gravity Washer
sent $\begin{aligned} & \text { free for one month's } \\ & \text { Write for particulars. }\end{aligned}$.
1900 WASHER COMPANY
357 Yonge St. Toronto, Ont.
DO YOU NEED FURNITURE?
Catio tob our hare phati-ilutatated
The Adams Furniture Co
Gream Wanited

「oronto Creamery Company, Limited Toronto, Ontario

## GINSENG

roots, two-y ear-old rope are offering one-year-01
and new stratified seeds aots, two-year-old roots, stratified seeds
and new seds.
prices. Write greaty reduced I. E. YORK \& Co., Waterford, Ont DR. BELL'S $\begin{aligned} & \text { Veterinary Medical Won- } \\ & \text { der. } 10,000 \\ & \text { FREE } \\ & \text { s1.00 } \\ & \text { bottles }\end{aligned}$


When writing mention Advocate

JULY 31, 1913
तORSE OWNERS! USE OR C oundurs BALSAM.



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Any'kind of VETERINARY
DRUGS
If you need any,
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we will quote very
low and reasonable prices.
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letter $\mathbf{F R} \mathbb{E} \mathbb{E}$ of letter FREE of
charge, with our
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Will meet importers at any, port in France or
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gitans, French Coach horses. All information about ians, French Coach horses. All informations, Beu
hipping, banking, and pedigrees. Many yeours

Shires and Shorthorns vasatiowsus vimizizw mix Aberdeen-Angus of Show Form



THE FARMER'S ADVOCATE.

Questions and Answers
Veterinary.
Skin Disease.
Prog two months old has some ski
about the size of a dollar, pinkish color. Since then a dollar, pinkish in sides and abdomen. Is it contagious Ans.-This is eczema, and it w. B. B. be wise to keep the pig isolated. Purge it with 1 oz. Epsom salts and feed lightly. Dress the parts three times daily with
carbolic carbolic acid, 1 part ; sweet oil, 35
parts.

## Paralysis in Lamb

 Lamb two months old on highland pasture has lost the It can walk all right with hind lege legs can only slide along on its knees. Some days it seems better than others. Ans.-This is paralysis caused either by an injury or disease of the spine. A re-
covery is doubtful. Keep it quiet in a
comer covery is doubtful. Koep it quiet in a
comportable place. Hold it up to nurse
trequently frequently a and feed it what grass it will
eat. Give it 5 grains nux vomice thre times daily, and if it shows symptoms o constipation, give it two tablespoonful

Result of Wound
Mare there is a hard lump without hair on it.
hen W .
the
Ans.-This is a turous growth and al most impossible to reduce. It could be re
moved by an operation. not it would be wise to onate, will depend largely upon its exact tocation.
The hair roots are destroyed The hair roots are destroyed and cannot
be reproduced. You may be able to bo reproduced. You may be able to
reduce the enlargement to some extent by the use of absorbents. Get a liniment made of 4 drams each of iodine and
iodide of potassum and 4 ozs. each ol glycerine and alcohol, and rub a little well in once daily.
Eczema.
My chow dog has either mange or ec-
zema. The hair falls of the akin be zema. The hair falls of, the skin be
comes dark and thick and then becomes greasy, but does not break or discharge
pus. The neck and shoulders pus. The neck and shoulders are chiefly have tried many remedies without re sults. C. S. M. very hard to treat sucecessfully. Dissolve is tin of Gillett's lye in warm water, add 20 gallons. Heat this to about 100 degrees Fahr. and give him a bath. Repeat the bath in about 10 days, as often 4 drams subnitrate of bismuth mixed with 2 ozs. vaseline. Also, get a lotion
made of oxide of zinc, 4 drams ; glycerine, 2 drams; lime water, 4 ozs., and water to masy, apply the lotion thre times daily; but if it appears to be
getting too hard and dry, use the ointgetting too hard and dry, use the oint-
ment instead. Give him five drops of ment instead. Give him five drops of
Fowler's solution of arsenic three times
deill daily and feed little meat.

Miscellaneous.
Leaf-Miner
a leaf from a porch vine two summers. Please tell me what it is and how to spray it? G. R. Ans.-The leaf seems to be a species or
Clematis. The markings on it are due Comatis. The markings on it are due
to the tunneling of an insect larva. If you hold the leaf up to the light and
look through the clear spaces, you may find the minute worm. The numerous
black specks are its castings. You black specks are its castings. You
really need a lens to make these visible
in the less, because the cuticle of the lea? pro-
tects the mining insect perfectly. Handpicking and burning the affected Hands practicable on small plants. Picking leal-mining insects.


These will either be sold privately or by auction as arranged and advertised later. This shipment will rank among the best to Canada this year and has been picked up throughout Scotland by myself, and I have paid great atten-
tion to the wants of Ontario farmers namely: size combined with quality tion to the wants of Ontario farmers namely: size combined with quality me a favour to drop me a line on the appearance o this ad: and I will attend to their wants on a small commission.

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 Clover Dell Shorthorns Markaale, Ont.
 head of hers L . WAKEL,
Spruce Lodge Shorthorns \& Letcent

 mp. rams. W. A. Douglas, of aucararora, ont tit DON JERSEY HERD Offerr yount

Please mention "The Farmer's Advocate."

## Questions and Answers.

 Miscollanoous.Lotion for Sore Shoulders. Some time last year "Whip" gave recipe for sore shoulders, also a prevenIvv. I have hunted for the same, but o get it again would very much like know there was sugar of tead in it Could you publish it again, for it was G. A. D. R. R. No. 4

And, -The lotion to whiten you refer to ne ounce eech of sulphate of zinc and ply four or afve timea daily. It is, at you day, A Arst-clase thing.

Tufted Vetch
Toothold sending an thin toed that tial getting a
 in grain or meadow. Will you please
 of eraidicating it. Ans: - This is a A plant of the turted vetch (Vicie cecca). Althoug not the
weediest of the vetches, it sutonld be tept weodioest of the vetches, it athould be kopt
off the farm, for by its perenniel roote or the farm, for by its parenniel roots
and numerous seeds it soon makee patches. A well-cultivated moe denso should go far to clean it up. Provent
seeding in the meantite Chickens Dying diy's sicicknessa ; cickens dying arter about a die. Feod chick food and sour millk. Ans.-1. First of all, examine them symptom you say nothing about other of death. If so, grease the he causo young chicks with lard, and repeat in a
fow days with ins. Hens may be dusted weil
week

 throat is swollen and he has difficulty in
breathing Chaply hot poultices to the throat.
to become poultice as soon as it bogins to become cool. As soon as an bobserss
forms, have it lanced and fush out the
fond cavity with a 4 per. cent. solution of
carbolic acid three times daily Give it 3 grains of quinine and 8 grains chlorate of potassium four times dailitor- by
placing well back on the tongue with a spoon. . Do not try to give anything as

## Red Skin Trouble

Keed and white heifer was sick two
wergs ano and it required large dosee
purgativo
 skin of the white spots since then the
has
become
 In some spotted animals the R. Ghite spots are more liable to skine tritule
than the dark ones. This is more com-
mon in swin ond man the dark ones. This is more com-
mon in swino than in cattle, but is
cosionally not
noticed her in the stablede in out of the sun during
the
the Dress the disensed parts three times nights, with carbolic acid, 1 part: sweet oil
30 30 parts.
A boy sat on a rail fence enclosing a
corn field. A city chap, passing by
said. "Your corn looks kind of yellow, "Yep; that's the kind we fallow plied the that's the kind we planted," roIt don't look like you will get more
than a lait crop,", snid the city chap "Nope; we don's exprect to tory the chap. Iord gets the other half," retorted the
youngster The stranger hesitated a moment, and
then ventured "You are not very far from a fool, ""Nope ; not more'n ten feet," said the

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Questions and Answers. Miscellaneous.

A European Lotus. Please identify the accompanying plant.
Ans.-This tall

Ans.-This tall plant, with pinnate
leaves and flowers like a large clover, is one of the European lotuses, Some species of this genus of plant have been used for forage, but never became popular

Yellow Clover.
Is the enclosed plant a varioty of alialia? If so, what in ite name? There are several patches of it on tho odge of a feld sown with oate and
needed down to elover, aleiko and aeded down to slover, aleike and
timothy. Quebee.
Ans.-The specimens recoived are TriSolium agrarium, in some books ealled common, know it Farmers, whero it is common, know it either by the name of in eharacterized by its yelliow hop-like fower-heads and its three leaflets aoessile on the end of the petiole. It is rogarded as a rather innocent weed. Being an annual plant, it will disappear it cut bo-
fore the seed ripens.

Mold in Bee Hives.
Almost all of my, bees are troubled
with mold, some so bad that beocomb With mold, some so bad that bee-comb
and the whole inside of hives was one solid mass of inside of hives was one slightly, with the bees still living.
What can I do to prevent and cure this condition. Can anything be done to kill
the germ of the mold without the germ of the mold without wasting
the combs?
Ans.-This mold only occurs in hives Where bees have been placed away for
winter in a very damp cellar. The moldy winter in a very damp cellar. The moldy
condition can be prevented by seeing that the bees are placed in a proper wintering place, that is cool, not warmer than 45 degrees F., and dry. If the combs
are very badly molded, they are pracare very badly molded, they are prac-
tically worthless, but if the mold tically worthless, but if the mold is not
very deep, they can be dried will clean them up, if they are placed in the hives of strong colonies. Millet -- Alfalfa.

1. When do you cut' millet for hay? 2. How do you feed it, and could a
bglanced ration be made out of millet, hay, straw and oats ?
2. If not kindly make one up. I have nothing in the line of corn or roots this year.
3. There is a nice rolling piece of sodr
which I intend drilling to wheat this fall. If I seeded down with about 20 lbs. alfalfa per acre on this wheat in the
spring, would I likely get a catch if I
harrowed it after seeding and then rolled ${ }^{\text {it. }} \quad$ Ans,-1. Varieties difer in this respect. Voorhees recommends cutting the farm-
yard millet just as it is heading out, and quotes an authority who' advises cut-
ting the Hungarian and some other kinds soon after heading out.
2 and 3. Millet may be used in the
same way as ordinary hay, and may be same way as ordinary hay, and may be
combined with other feeds without special regard to its own composition. ration of straw and oats would not be
perfectly balanced and neither would ration of straw, oats and millet. Add a few pounds of bran or one and a half
to two pounds of oil cake, and either ration would approximate a correct ratio.
Of course, the ration including the millet
. Of course. the ration including the millet
wrl be decidedly richer in both proteln and carbohydrates, and should give cor-
respondingly better results. than a ration tomposed largely of straw. Henry, by
the way, ascribes to the Hungarian mil-
let a lower rercent lee way, ascribes to the Hungarian mil-
let a lower percentage of protein than to the barnyard or cat-tail millets.
4. You might get a fair catch in Way or by sowing on the ground whe
honey-combed with frost without harrow-
ing afterward. ing afterward. But if your field is now
in sod, you will likely find the gras even next year. Get land clean for ara-
falla, and eapecially get it free of grass.
That is a larger order than many people

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 SWINE OF ALE RREEDS FOR SALE Hampohrres. Chester Whitea. Poorand. Berarkahirees

 Hale," said a lawyer, "'was Everet suests at a millionaire's dinner "The millionaire was a dinee sut ho wanted full credit for every dol lar he put out. And, as the dinner progrest, he told his guests what the mgre expensive dishes had cost. Ho dwelt especially on the expense of the large and beautiful grapes, each bunch foot long, nach grape bigger than a plum. He told, down to a penny, what
he had figured it out that the he had figured it out that the grapes
had cost apiece. Tha guests looked annoyed. They ate the guests looked
anpensive grapes
anarily. charily. But. Dr. Hale, smiling, extend-
ed his plate and said: od his plate and said:
about $\$ 1.87$ worth more, please, ',"Chicago Record-Herald. Hub (with newspaper)-Listen to this,
Wifey: "For every missionary sent abroad last year, Christian America sent
1,493 gallons of liquor." Witey-Mercitul wer hink missionaries were such drind eve

grat
out
ter

Questions and Answers
Miscellaneous.
Cow Leaks Milk. I hava a cow which leaks her milk un-
less milked at certain hours, and some
times in about to run, you can see the milk she starts
to out of hor teats. see the milk dropping which this could be stopped? R. A. Ans.-There is no satisfactory way
that we know of to overcome this trouble. Some have reported this frofm the use of collodion, putting a lit cle on the end of the teat just after milking. It is supposed to form a scale which may be picked off each time just
before commencing to milk cheap, but we have tried it without any very encouraging result. Milk your cow at regular intervals and do not dog her
or force her to run. force her to run
Corn on Ear for Pigs--Sweet Clover. it is advisable to feed corn age at which young pigs ? 2. What is the value to aveet clover as a feed for stock, and is I suitable for the silo mixed with corn ? grows so extensively along the which sides.
Ans.-1. As soon as they will eat it batable. Value for stock feeding is deenough with alfalla, but it is compares well bitter, and stock have to acquire a tasto for it before they will eat it. We do
not recommend it not recommend it as a forage crop.
Have never heard of it Have never heard of it being ensiled
with corth or any other way. Squirrel-tail Barley.
Is the specimen sent herewith a seed or seeding of alfalla. Never saw anything
like it before. like it before
Ans.-This is a worthless S. L. P.
grass and should be treated as a weed. It is a bi-
onnial ennial. and, hence, may be killed by cut
ting before the seed ripens. If allowed to remain until nearly or quite ripe, th and hence easily scalter the a touch you compare it closely with barley, you
will find that its head is much smaller wut otherwise simitar is much smaller but otherwise similar seeds and much
longer awws ; hence the name "squirrel tall barley," or, in botany, Hordeum jubatum.

Sudden Change of Feed Three-month-old pigs when turned out for about two aleeksh; had nothing to eat except clover and grass while out, so I thought I would shut them up and start
to feed them. I gave them two to feed them. I gave them two eight-
quart pails night and morning of lowgrade flour and bran. After I had been
leeding a couple of feeding a couple of days, I noticed they
were of their appetite, didn't seem
her were of their appetite, didn't seem
hungry. That was an Tuesday
dat day, the Tay before, I fed them Mont Mon-
and the and noon. They seemed hungry and all
came to their feed came to their feed. When I went to
feed them at night, I found dead, three more were sick. They seemed weak in the back and hind legs ; the I turned them out on their hind legs, so and they are getting better. a few days, nothing wrong and found I could see seemed to all be in the stomach, with
nothing in their inter nothing in their intestines. What was
the trouble-had they indigestion or were they poisoned? an ontario reader. Ans.-Your pigs undoubtedly suffer wise thing in taking pigs abruptly off th grass, where they had been getting no
grain food, and shutting the them on meal alone. exercise and feedin
your pigs she the find
your pigs should have had some meal
while on grass. In the second place, the
change made tradually. In the thirdd have been
should not feed young pigs on bran. you
shat In
the fourth


ally up again, make throw chan you put
ally ardu-
feed into the parth and green
fed into the pen, at least for a while on
the start.
Po
gex,
easy

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R. R. No. 3. Ingersoll, Ont. Oxford Down Sheep, Shorthorn Gat-


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frem imported stock from
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R.
nooe -3 on
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Muskrat Farming in Maryland． Edward Island and other Canada has aroused widespread interest
in the From general subject of fur farming Agriculture it appears that the rearing of fur－bearing animals for their pelts is a subject of much interst in that coun－ try also，judging by many inquiries asking for information on the subject．
Skunks Skunks，muskrats，mink，and foxes are
reared in captivity or on preserves
control reared in captivity or on preserves under
control of breeders．
for breat demand for breeding animals and the reluctance with which successful breeders part with
their stock of black foxes tharge prices to be asked for mature ani－ mals，preventing the business from be－ coming general，and conininig trom be
try in the hands of a very few． Muskrat farming is already a pros－
perous business，and has probably reached its highest point of development
on the Eastern on the Eastern Shore of Maryland，al－
though followed in other sections of the though followed in other sections of the
country．Muskrat marshes are worth country．Muskrat marshes are worth
more，measured by the actual income
from them，than cultivated farms of like from them，than cultive acted farms of likeme
acreage in the same vicinity．The me acreage in the same vicinity．The mar－
shes need only to be protected from
poachin poaching，as the to buskrats protected from
roots of the the roots of the reeds and marsh grass，and
the rental to the trappers is usually for the rental to the trappers is usually for
half the fur，leaving the meat as an ad－
ditional sourco of ditional source of gain to them．Only
one other animal in the world，the
European rabhit European rabbit，exceeds the
the number of skins marketed．
Kind of Holsteins Wanted in Japan． Holstein bull from a breeder in for a In giving his order he very carefully specified under what conditions he would buy the bull．
These conditions are significant，and of dairy cattle who aim to make im－ provements or maintain a high standard of excellence in their herds．They were
specified as follows ： specified as follows
1．Tuberculin－testan 1．Tuberculin－tested by reliable veter－
inarian under strictly normal conditions of the animal． 2．The age of the animal to bo
yearling if possible．When such is not available a younger one will do．
3．The animal to have good backing （Ancestry of good breeding and records of performance．）
4．The dam to have been tested for 4．The dam to have been tested for
yearly record at least once，i\＆possible
more，with creditable records at each lactation；one of the records to be 800
pounds of buttertat，if posibl pounds of butterfat，if possible，with
credit if the cow is young．The o have been made with the average test not over 35 per cent．if possible．
5．The bull to be from the later calving when possible． 6．The color to be more white than
black．Nearly all white will do no black．Nearly all white will do no
harm，but the marking is of small matter compared with other conditions． 7．The constitution and quality of the
animal to conform to the best judgment animal to conform to the best judgment
of those capable of making the selection． W．A．CLEMONS．
＂An sgg，＂explains a Kansas youth，
＂is composed of four parts－the shell，
the yolk，the white，and the price．The the yolk，the white，and the price．The
shel！is very fragile，like one of the
Ten Commaidments． Ten Commandments，and can be broken
without an effort．The price ts the biggest part of the egg，and its greateot
protection．The price alone has saved protection．The price alone has saved
millicons of innocent young egga from be－
ing hoiled and eaten ing boiled and eaten．Eggs are very
delicate，and spoil very quickly．When
an en and an egg spoils it puts its whole heart
into the perlormance． into the perlormance．One can tell a
spoiled egg as far as it can be seen， spoied egg as far as it can be seen，
and with one＇s eyes shut at that，it the
wind is in the wind is in the right direction．There
was a time when everyone ate fresh eggs
in in summer，and went without in winter
Nowadays，however，business metho
have led men to buy in sum
when
flavor．

Low Fuel Consumption
$S^{0}$ satisfied are we of the low cost of run－
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## Which Will YOUR WinterWheat Look Like?

WILL your winter wheat show the full, thick, large grain of the perfectly nourished crop, or will it be thin and shrivelled or just average-such as may be grown on the average farm by the farmer who does not make a careful study of his methods of growing?
You are in the farming business to make money! You want to get the maximum yields from your land. To do this, the most important work comes at the start and consists in the use of a high grade $10 \%$ POTASH fertilizer at seeding time. The proper wheat fertilizer is one analyzing $2 \%$ of Nitrogen, $8 \%$ of Phosphoric Acid and $8 \%$ of POTASH-better still a 2-8-10

## POTASH

Any agricultural authority will tell you that Winter Wheat removes from the soil more POTASH than Phosphoric Acid. Notwithstanding this fact, the average wheat fertilizer contains actually less POTASH than Phosphoric Acid.

## "POTASH PAYS"

Insist that your dealer gives you a fertilizer containing $10 \%$ POTASH. If he fcannot, you should add enough POTASH to the fertilizer he can give you to increase its POTASH content to $10 \%$.

We will tell you, free, just how to do this. We recommend, based upon actual field tests made by experts throughout Canada, a fertilizer for winter wheat that contains $2 \%$ Nitrogen, $8 \%$ Phosphoric Acid and $10 \%$ of POTASH. By applying at the rate of 500 pounds to the acre at seeding time, you will secure a good stand before the commencement of winter and thus afford the spring.
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[^0]:    象

