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## Zhe

# Farmer's <br> Xdrocate and Home Mragazine. 

Vol. XL

EDITORIAL.
Co-operation Prospects in Export Fruit Trade
The instance of British conservatism cited be low by Mr. P. H. MacNamara, Canadian Commercial Agent in Manchester, Fng., reveals a difficulty that will be met in the contemplated plan of getting Old Country firms to send representatives among the Ontario Co-operative
Associations to buy the crop foob.
${ }^{4}$ In vieb of a clrcular letter, dated March 24th, 1905, from the Chief of Market Division of the Department of 50 oon barrels of apples, to he packed by the of 50,000 barrels of apples, to be packed by the Ontario, I called oh thé leading wholesale apple firms in Manchester and in Liverpool, for an ex pression of their views anent this plan of sale, for the purpose of presenting same as succinctly as possible. It is not looked on with any degrec of favor. None of them would buy on the trees The expense of seiriding an expert buyer or a problematical purchase is a deterrent. They take the ground that the individual orohards entering the co-operative pack varying fruit, and produce 100 to 500 barrels of varying fruit, and
that the packing of same involves the same diffculties as to grading as obtained heretofore in the hands of packers, and they offer the sugges tion that the output should be disposed of to leading Canadian apple exporters, and that after the brand of apples packed by the co-operative association is known to be uniform and reliable, and is sought for by the British people, they would entertain the proposition of buying direct
from the packing association."
rom the packing association
The paternal suggestion to sell to Canadian exporters is hardy worll be disposed to reap the full reward of their enterptise by selling diteret on the forelgn markets, thus cutting out the mitdleman, and at the same time obtaining the ativantage of the reputation which each association may work up for its brand. If dealers were to buy the output, they, rather than the growers, would get the credit for any superiority in packing or grading, and since there night more or less diversity among the achs of dinerio guarantee uniformity in inis turnover, which is one of the strong points of co-operative packing and sele. With their Old Country firms assume that the pack of each grower will vary. This, as our readers are aware, is the very thing that is avoided by the central packing-house sys-
tem, which has been adopted by most of the cotem, which has been adopted ly most of the co-
operative associations. It is at least encouraging to learn that the British buyers will be prepared he packing associaproposition of buying from the packing associa-
aions" after their brands are known to be uniform and reliable, and are sought for by the British people. Incidentally, it strikes us that
this day would be a long time coming if we left it to the exporting firms to exploit our brands. However, if the narket will not come to us, we can go to the market. Supposing we shour
fail in an energetic canvass for trial orders. there would still be the chance of consigning to the
Old Country merchants, as did the Ilderton Old Country merchants, as did the Ilderton
(Ont.) organization last vear, with comparative(Ont.) organization last vear, with comparative-
ly good results, and. perilays, after a season's experience, the British honses, like the , heirern
merchants last summer, will lind it to ad
vantage to buy direct from the packing associaGons. Growers who are enterprising enough to organize may be depended upon to find some
means of getting next to the British dealer.

Canada's Opportunity in the Orient. At this moment, when the eyes of the civilized world are turned admiringly towards the little Island Empire of the Orient, it is opportune to reflect upon the commercial changes that will follow the war. The overthrow of Russian power will mean a new Asia. It is reasonable 10 expect that the qualities which have contributed to Japanese prowess in war, will mani fapt themserves al fair ultinately to do in rejuveriating the four-hundred-million nation of Chinese, openint up that immense country to the commerce of the West, the commercial map of the world will be readjusted, and the Paclfic will become the highway of a lramic vaster than that or the Atlantic. For Canada, especialy for Western Cahada, the importance of the change can scare ly be rellized. Not only shall we be in the dired lite between the Last aner, modern-civilized nation we should be able to capture a large share of the new trade that will develop. Japan will afford a growing market for many of our products. She is yearly becoming more of a manufacturing nation, importing large quantities of raw material and other articles required for native imanufacture. From figures to hand it appears that her imports $065,250,000$ three months 100 heresponding period against $\$ 46,500,000$ or of 1904. This increase, while partly ascribed extensive purchases of raw cotton, in which we note an increase of $\$ 6,250,000$ for the quarter year, to half a million more in imports of iron and steel, and to $\$ 1,750,000$ more in machinery and engines These figures seem to presage an industrial development.
It is significant, too, that the question of food supply is commencing to engage the attention. of the Japanese public. The trade rcturns show that the imports of rice exccca unenty of wheat sides which, there is import 1903 being $\$ 5,162,000$ flour, the vere the population, now computed at Meane 47000000 , is increasing at the annual rate of half a million, so that, in spite of at tempts to augment the production of rice by extension of the fields and introduction of agri cultural improvements, it is evident that Japan will become more dependent upon forelgil countrity for food supply. This is Canadas opportunity It opens up a great possinsing it is true the Japanese with flour, in that country, as contconsumption of frour in with rice, is still insignificant. A greater part of that now imported is used in the manufacture of macaroni and other paste foods, which accounts for the demand ior the lower grades But the use of bread is becoming more general and the demand for wheat fiour in butter and is bound to increase. Ending trade uudoubted other commoar Western door. Last year our Jap anese exports amounted to the respectable item of $\$ 418,246$, an increase of more than 70 per ent. over the previous year, and few years this ma be multiplied many fold. It will pay us well to keep our eyes on the Fast.

Some Notes from the O. A. C. Those who have this season visited the Ontario Agricultural College Farm, or those who purpose doing so before the end of the month, win be interested in a few obser on recent visit. Without pausing to dilate on the annual improvement in grounds and campus, which now form one of the loveliest spots imaginable, a few remarks on the departments, in turn, may be offered. Commencing with the stock, a trip through stables and fields shows the animals to be in thrifty condition, evidencing good care and oversight. At the time of our visit, a bunch of calves were running in a shady paddock near the barn. Among the Shorthorn bull, Scotchman, all showing the stamp of the sire, which is turning out to be an excellent breeder. Incidentelly, a noteworthy illustration of the law of atavism is seen in the color of his progeny. Though a roan himself, and mated successively with cows of all colors, including a goodly proportion of the same color as himself, almost all his calves have turned our all having got down bull himself has developed well, having got down somewhat closer to the ground within the annal
couple of years. The stock of pure-breds is annual ly increasing in numbers, and improving decidedly in quality. Though it is impossible for the College, with its multiplicity of breeds, to breed a first-class pure-bred herd economically, Prot. Day has succeeded very well, considering the handicap. the herd now comprising a very good bunch of Shorthorns and a creditable representation of the other leading beef breeds. The sheep we were pleased to see looking better than we have ever foung with few losses. In hogs, a series of experiments with tankage and blood meal and skim mill is being repeated. It is also purposed to carry on some work to investigate the cost of producing pork from birth to market age. In these exper ments they will use crosses. of the Tamworth and Yorkshire, and Berkshire and Yorkshire, each way, in the hope of securing some case for suitabilly om the farm, ductio Indeed, the soil is getting usual, are looking fine ndeed, the soil is getting so rich in humus and
nitrogen that an excessive growth of straw is often produced, causing more or less trouble from lodging. It is rather a novel thing in Ontario agriculture for an old-cropped farm to veoome too rich, and the increased fertility is certainly a tribute to the system of manuring, shallow Mr. Wm. Rennie, and practiced so successfully since by Prof. Day. Passing a, fleld of oats which showed a thick, even carpet of green, Prof. Day remarked that they had tried some different thicknesses of seeding to see whether anything could be done in this way to prevent lodging. Instead of the usual 1is bushels, part of the field was sown at about two bushe, wo shall watch with interest for the results at harvest Another lest is to be seen on that part of the section of new seeding lying to the northwest of the dairy buildings, where a comparison is being made of tall oat, meadow lescue and orchard grasses, sown at the rate of six pounds per acre along with the usual seeding of timothy and clover.. Instead of cutting hay one year and pasturing the next, the plan now followed is to cut hay two years on the area remote from the stables, and pascure two years the part mose
convenient: hence it is desired to find some good

THE ${ }^{\top}$ ARMER'S ADVOCATE and Home Magazink.
ThB LEADNGG aggicultural joviral in thi Dominion.

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Addreses-THE FARMER'S ADVOCATE, of
THE WILLIAM WELD COMPANY (Lnemtid)
Iondon, camada.
pasture grass to sow with the regular mixture in this part. So far the orchard grass promise. ouhers may be decided upon for next year

Apropos of the above-mentioned test of grass es. some investigations of the Experimen
For the past four years an interesting exper ment has been carried on by the Experimental D partment in comparing different pasture crops In all, sixteen variaties of grasses and five varieties of clover have been tested. Previous to this year the growing plots of grasses and clovers have beer cut six times during the summer, and the yieds anoin the aggregate of these cut ings, the total value of the crops as pasturage was ascertained. This year a difterent plan is being followed. Half of each of these phots $\mathrm{w}_{\text {as }}$
fenced off when the orops hall madh. sufficient growth for pasturage in the spring. On May 17 th
three sheep werc turned onto this pasture The three sheep was then re:noved to inclute the wholo of the plots, and two steers were pastured on the plots It was ubserved from this first test that the sheep ate down the timothy best, and the tall like the tall oat grass fully as wall as the tim othy. This fact is significant, since, by experi-
ments of the last four sears, (all oat grass produced the greatest y orat Othard grass wa The cattle seemed to have a dweidel preferenc y the end of Mays. They also foul eaton down dian blue grass, timothy, awnless trome, and red
grasses are going to become valuable additions to our pasture crops in Ontario. These grasses are succulent, rapid-growing va
in comparatively dry seasons. In the clover tests for shike and cominon red. Similar tests are to be conducted at intervals throughout the summer, and the final results wil se awaited with interest, since somise of good arieties of grasses in our Province.
The Experimental Department is also carrying other now work, a review of which will be presented to our readers a little later.
In the Dairy Department, Prof. Dean explained system of stable ventilation which gave excelent satisfaction later. A system of watering basins, installed lately by the Metal Shingle and Siding install Proston, is being tried along one row ows. The feature of the basin is a button which unscrews at the bottom, permitting the vessel to be easily flushed out
In the Manufacturing Department butter is being made this summer by the sweet-cream process, which Prof. Dean considers the ideal abayt The practice is to im 35 per, cent. fat, pasteure where its temperature is lowered to 45 or 46 degrees, when it is churned the addition of a stariter. In reply to a question, we were informed that they are now investigating the need for a slarter, as it is by no means clear that its addition so soon hefore churning is of any particular advantage. We must, however, awalt further experiments before pronouncing on this point. Discussing the some what critical comments in some quartermaking the claims made for sweet-cream of the critics the Professor pointed out that some ourizing prehad overiooked elopment of injurious germs, and hence obviated the necessity of ripening to control the flavor. Judged by results, the sweetcream butter is superior to the ripened-cream
product, the former having a mild, pleasant flavor, which is preferred by the great majority of those who have compared the two, particulary the girls of the Macdonald Institute (who should swent-cream butter has better keeping quality. In the Home dairy there are now seven makes of latter is recommended for a herd of
Without mentioning the remaining departments
cown specificaliy here, we may note that the teaching has progressed very satisfactorily during the past
year, the discipline being even bettor than in former years. This may be due to the fact that the responsilility is largely thrown upon the student body, who, in the main, are orderly and in insisting upon satisfactory conduct. One canvery wholesome place to send a boy. had heen At the time of our visit no one had acen Harrison, though applicants are numbrous, it is intended, President Creelman informed us, to
secure first-class men, preferably Ontario boy who have got their training at (idaclph and have logical Department it is likely that some. now arrangement will be made, hy dividing the work, pology, and assigning the botany to a lecturer. or Frof. Lochhead severs his commection with the (".
A. C. this month to join Ulie staff of Sir Wm dications point to a rucord attendance this fal at the $0 . A$. the number of applications al
peady in heing umprecedented for the time of the A trip to the college is now incomplete with in the Macdonald consolidatad school, which the Collowe corn fom the building is the school garden, which, as is well
known, forms a feature of the Macdonald

Schools. There are both individual and class plots, as well as experimental plots in comnection therewith, all neat and well kept. Attendance has kept up remarkably wellment in April, and 95 pêr cent. in May. The School has been visited by a great many people, including a deputation from the Niagara Peninsula, who, it is said, travelled all through the district without meeting one person who could find any fault. An even more encouraging evj dence of the popularity No. Guelrh is com that anothe sensol district when the schoul opens after the sumumer vacation.

## HORSES.

## Cervical Vertebre Dislocation.

$$
\begin{aligned}
& \text { Sir,- I beg to return my eincere thanks for } \\
& \text { calling my attention to the case of dislocated }
\end{aligned}
$$ calling my attention to the case of dislocated

cervical vertebre in colt. It was not my in tention to make any comment on cases of this kind, except so far as veterinary annals are con-
cerned. On enquiry to the editor of the Veteri nary Record, a paper devoted to veterinary prac nary Record, a paper fice, there is no record over the name a qualified veterinary surgeon of complete re covery The fact that the injury is so common and no authentic cases of complete recovery
makes the one reported unique. If Dr. McVicar makes the one reported unique. If Dr . McVicar
V . S ., will send me full particulars of case, also state of colt at present, I will promise that it shall go on record. Mr. I. P. McVicar states that his Thoroughbred colt dislocated the sixth and could not happen without immediate death as this bone has no inferior spinous process, and the transverse processes are triped, consieting or three eminences,
out fracture, even in the dead subject. It is only between the third and fourth, or the fourth and fifth that dislocation can occur and recover plete recovery rare, and many conditions were plete recovery rare, and many conditions were
favorable in the cases reported. The horse is aged, covered, the treatment prompt, and good help plentiful. Since reporting this case, a horse, tith
property of Mr. Edwards, Bracondale, met with the same disaster, but, notwithstanding ever effort to restore the neck to its normal condition, the animal had to be destroyed.
WM. MOLE, M.R.C.V.S.
Toronto.

## Draft Horse Breeding

English farmers favor the Shire as the blest English farmers favor the Shire ars the blest
horse for the farmer to raise for work and to sell. A Live-stock Journal correspondent thus
urges the merits of Shire horse breeding : urges the merits of Shire horse breeding :
It is evident, in the first place, that the best draft horse will be the last to feel the effects of the motor on the road, notwithstanding the fact that motor plows, wagons, etc., are already nound field. But there is one advantage in a
sorse which a machine does not possess, viz. : that the horse increases in value up to six or seven years old, if it is in anything
like good hands, which the motor never does, be it ever so skillfully handled, and there is a feeling of satisfaction about owning stock-whether living or dead-which is increasing in value which creasing bernor Further, the initial cost of setting up horseless machinery is considerable, and quite beyond the reach of a small farmer; whereas a Shire
may be bought which breeds a s500 stallion, one such instance having come under the writer's own notice, and instances are recorded of a Shire foal leing bought for less than twenty sovereigns
which afterwards made a thousand. No horse hater can claim similar results from a machine made of iron and steel, without entire reconstruc tion. In these days it becomes increasingly necrssary for a farmer who wishes to make a liva make the most of his produce without depending on receipts by the sale of hay and grain, and it is obvious that two or three roomy Shire mares summer or winter, and, of course, they will cheer-
fully do most of the work needed on an ordinary With regard to selling, a good deal depends on he nature of the holding. If it is small, then
it may be best to sell the young stock as foals It may he best to sell the young stock as foals,
and for this purpose the best sires should be
uised for mating with registered dams, so that the youngsters are given every possible chance of turning out "c trumps." and paying for the dam low-grown mares, unregistered and on the smad

performers of that breed are now being multi－packer sess that we mean business，and if he
plied．So，too，it was in the same way that will not see，why we will have to quit the busi－ plied．So，too，it was in the same way that
the thick coating of flesh and the white markings were fixed in the popular Herefords，and that Thomas Bates established the notable family Shorthorns that bore his name，and，recently，
that the now popular＂Scotch Shorthorns； ware fixed in the type that is giving them so were fixed in the type that is giving the
wide a distinction at the present tinne． to which this line e of effort ing up improvement
effort
animals
exten
build－
can carried．In－and－inbreeding for the purpose of ex－ tensive development－of a single characteristic，
carried too far，breaks up the balance of the ani－ carried Nature rebels against so one－sided a work．
mal．
The constitution of an animal，the powers of en－ mal．Nature rebels against so one－sided a work durance，must be kuilt up along with perform－ ance，and kept in balance with it，or，when
trial comes，the animal will break down und the strain．
Intensive milk or butter production，as an ex－
ample，cannot be built up in a cow and main－ ample，cannot be built up in a cow and main－
tained indefinitely unless along with it are built up powers to endure the work．Milk fever among the best of cows，weakened offspring，and con－ sequent disease in the great performing herds of performance alone being carried further． along the way，among the great masters of the art of breeding，wrecks have linally set the limit breeding．The most disastrous example of this kind known in the business，probably，was the going to pieces of the cattle from the New Yor at fabulous prices，yet proving of little value as breeders afterwards．Many less noted example are to be found among those dairymen and breed－ point of great performance in view．
with advantage up to a certain undefined limit， with advantage up to a certain undefined limit but has proved a failure in every attempt
pursue it indefinitely．－［Agricultural Gazette．

## The Bacon Hog Industry．

In a recent number of the＂Farmer＇s Advo－ cate＂there appeared an article on the bacon－
hog industry，dealing with the loss it was about to suffer should things continue as they abou subject on which I would like to express my opinion
The cause for the present shortage is easily traced to the poor price paid last fall，and the lack of discrimination in the price paid by buy－ ers generaliy，as it makes no difference how good hogs a farmer raises he gets no more than the Where the fault with the farmer lies is here When the price goes down like it did last fall he gets rid of all his hogs；then when the tide turns he is entirely out of hogs and receives no benefit from the rise．If he would stick to the
hog through thick and thin，a more even supply hog through thick and thin，a more even supply
would be the result，and consequently better would be the result，and consequently better
prices． But the real cause of the trouble is the pack－
er，who thinks he has the natter in his own
hands and will do as，he pleases；but just about hands and will do as，he pleases；but just about
now he is experiencing a change of mind，and to now he is experiencing a change of mind，and to
relieve himself is howling about having to im－
port hogs and of the scarcity of coarse grain in Ontario，assigning this as the cause of the lack of hogs．Everybody knows that it is not the
case．The packer claims that，he is losing one case．The packer claims that，he is losing one
to two cents a pound at the present price．Who
was losing one to two cents last iall？Oh，it was only the farmer，who does not mind feeding If things go on as they have been going it
will not be long before the bacon－hog busines will not be long before the bacon－hog business
will be ruined，and not only will the farmer suf－
for，but the whole count A lew years ago our best farmers began to
breed up their hogs，so as to produce the proper bacon type，and it was not iong till nearly all
the farmers were trying to a produce the proper kind of hogs．Now a reaction has set in，and
they are going back to the easily－fattened loreeds
Why d Why ？Simply，because they get no more for th． right type bacon hog than they do for the
others，and the former are not as cheaply raisted We are now just beginning to get a firm hold
on the English market，and if we are not care－
ful we will lose what it has taken yenrs to gain， ful we will lose what it has taken years to gain，
for John Pull wants the best．and if Canaday has not got it he will buy of those who have．
Here lies the remedy：Leet the packer instruct will not see，why we will have to quit the busi－
ness，and then we will see who will squeal first． let，others speak；I am sure the editor will give a chance．
Prince Edwar

## FARM．

## Eradication of Weeds．

There is probably no other question that so largely
occupies the attention of the farmer during the sum－ mer，as how to get rid of weeds．Not only do sum－ offend the eye and degrade the taste，but are a positive
injury to successful agriculture．Most varieties are possessed of strong roots and a vigorous constitution， more readily than is the case with the inore desirable species of vegetation．It has been found that a ton of dried pirweed（Amarantus retroffexus）contains as much phosphoric acid，twice as much nitrogen and nearly five
times as much potash as a ton of ordinary manure Lawes found that 150 to 270 pounds of water were transpired for each pound of increase of dry matter． These pernicious characteristics demand a proper system growth of weeds，their mode of distribution，otc．，is of prime importance．
Our worst weeds are for the most part of foreign origin，perhaps not one in twenty being native plants．
Those indigenous to a country are not usually trouble some until introduced elsewhere，thus it naturally fol－
some lows that they must be provided with some means of transportation．This is accomplished in iwo ways
First，by natural＇agencies，as wind water birds mals，etc．；and，secondly，by human or artificial means， as feedstuffs，seed grain，manure，implements，threshing
machines，etc．Doubtless one of the most prolific machines，etc．Doubtless one of the most prolific
sources of weed dissemination is the buying and sowing of impure grass seed．This fact will be more forcibly understood．A common thistle head may contain 300
seeds，each producing and seeds，each producing a plant with 50,000 soentain Shep 300
herd＇s purse，false flax，wormseed mustard，curled dock， eath average from 20, ，⿴囗才 to to 40,000 seeds on a pock，
Our experiment stations have during the last two or three years analyzed numerous samples of commercial
clover and grass seeds，which were lavge and grass seeds，which were found to contain a
lathers of the above varieties，together with others equally undesirable．In one case a sample of
red clover contained over 36,000 weed seeds alsike， 49,000 ，and timothy， 79,000 ．Alarming as this problem，by preventing their propagation the weed screening and the sowing of only such seed oltained from localities with a minimum of these pests would
aid very materially in keeping them under contro eradicating weeds it is well to consider control．In nuals，biennials and perennials，because in most in－
stances the treatment is simple and upon general prin－ stances the treatment is simple and upon general prin
cipless．Annuals are those plants that complete their krowth and ripen seed in one season，as wild mustard，
purslane and ragweed；also those known nuals，of which cockle and pigeon weed are examples， produce a certain growth before winter，and complete prevented from seeding they will soon die out entirely Clean culture is，therefore，the chief essential to suc－
cess．It kills growing weeds，and by causing seeds to germinate hastems their deedratruction．Causing seeds to
Unfortunately，
 lain in the ground for twenty yeurs．When brought to
the surface they spring into ated by cultivation when，er they appear．
Biennials require two years to complete their growth．The majority of them have a lomplete tapeir in which during the first year the plant stores up a
supply of nourishment in the formo of starch，which is
uflizizd the second year in producing sede
$\qquad$ to mature．They are seldom seon in cultivatwel fields，
lwhe are very common in fence corners and waste lands
where it is impracticatle to use the plow．If this class of plants are cut off even with plow．If this
will stound they hut cuttine two or three inches below the crown with
a harp，spade or spud will always be found effective．
Perchniants continue to Auffintely．They are of two classes ：Those that prow
Whee themselves from the seme only，such ＂hich are reproductive not only from the seenl，lut also Inouth the surface ，med are supplied with numurous Linds，

n small patches by pasturing with sheep without leaves，any means of preventing their growlh will literally starve the roots to death． A proper rotation of crops is a valtaable means
killing weeds of any variety．It will have been served that certain crops are conducive to special kind of weeds．For instance，meadows and pastures encour－
age the growth of curled dock，ox－eye daisy and plan－ age the growth of curled dock，ox－eye daisy and plan
tain ；fall wheat and rye is congenial to cockle，pigeon tain；iall wheat and rye is congenial to cockle，pigeo
weed and chess，and spring grains to mustard，wild weed and chess，and spring grains to mustard，wil
oats and foxtail．Keeping this fact in mind，it wital be seen that the remedy sought may be found in a rearrangement of crops，such as sowing spring grains
on land infested with weeds common to fall grains，ant vice versa．In the first case the cultivation required from putting the crop in will destroy any weeds that had started to grow the pravious fall，and in the latter
instance the crop will be harvested before the seeds any foul growth can mature．Dense growing grass lands generally smother out annuals，but are troubled with biennials and perennials．These should be kept in
check pretty effectively by practicing a three or fuur check，pretty effectively by practicing a three or fuur
years＇rotation that would include a hoed crop follow－ ing sod．To summarize，avoid as much as possible the distribution of weed seed，and employ rational methods in eradicating those that do grow．By a
careful study and application of the fow essential enumerated，any weed can at least be kept under con－ trol should complete extermination be impracticable． ${ }_{\text {Elgin }}$

## Rape as Pasture．

With frequent rains and flush pastures of grass in June， does come later in the summer or in the early autumn when the grass fails，and regrets are in－ dulged that some provision has not
to tide over such a contingency
Rape a for Rape as a forage or pasture plant，probably
fills the bill for this purpose better than any other for sheep and pigs，and also for cattle other than the milking cow，in which case it is
likely to affect the flavor of the milk and butter． For sheep it is par excellence，the most rapid flesh－producing green feed available．For young cattle and for those intended for feeding for beef in the best possible condition to go on gaining in weight rapidly．For pigs，according to ex－ periments conducted by Professor Carlyle，at the
Wisconsin Station，it was determined that an acre of rape properly grown，when combined with corn and shorts，has a feeding value equivalent
to 2,436 pounds of a mixture to 2，436 pounds of a mixture of those grains， rape is a better green feed for pigs than good clover pasture，the pigs fed upon rape having 33.5 pounds less grain than was required by on pigs fed upon clover pasture with the same grain ration，and that rape is the cheapest and most satisfactory green feed for swine．
June is the favorite month for sowing rape， in July．We have seen a good crop grown on clover sod plowed immediately aiter harvesting a hay crop，the land being rolled and harrowed broadcast at the rate of four or five pounds per acre and harrowed in，though，as a rule，better results may be expected where the seed is sown to 30 inches apart，and the horse hoe used bo tween to conserve moisture and hasten growth Where a suitable drill for sowing on the level answer the purpose using the grain drill mav ment，closing part of the openings and directing the rubber tubes into certain of the hoes at a the land being first rolled firmly or 30 inches， seed being too decply covered，a very light cover ing being sufficient．The ideal preparation，how－ ever，is a fath－plowed field，brought to as fine a the same way．Rape seed is so nearly like turnip seed in appearance that only an expert can dis－
tinguisin between them． rarely exceeds ten cents per pound，of rape seed
times sold as some－ Fosses is the variety sown for pasturage pur－ cight weeks alter sowing，but stock should not inches high，as the stronger the stalks，the down it will spring up arain After being eaten werks．It is if stock be kept off it for a few （improved li，frost，and is relished by stock right i1）to winter．There is no cheaper or more Whefitable supplementary pasture crop than rape．
Ther is some dancer of sheep or cattle bloat－
iner union it wit with duw or rain，but when they get used to
 well．huw．w．when practicable，to allow the ani－
mats ancos also to a qrass pasture for variety，
thongit in the case of sheep and pigs this is by

## Eradicating Quack Grass.

 This weed, which has given many farmers a great deal It commoner names are couch, twitchnames. Its commer a variety of and quack, and its scientific name is Triticum repens.
This weed, while seriously and universally condemned, has not been an unmixed evil to all
whose farms have become more or less infested Many farmers have found that the extra cultivation usually necessary for its eradication has
paid well in the increased available fertility of paid well in the increased available fertility of
the land, the result of killing the roots in the the land, the result of killing the roots in the
soil and the unlocking of lazy plant food. I have had considerable experience with this plant, and have learned that it is an unequal
fight withi the weed when the ground is wet or fight witk the weed when the ground is wet or
the season showery. I have found that there are two methods more or less successit we amount of perseverance of the operator. We have learned
much in studying the nature of the plant. Of much in studying the nature of the plant. course, it is a perennia, and reot, or, more correctly speaking, underground stem, as that is really what the root is. A portion of root with a joint carried to a
moist soil, will start to grow, and produce other moist soil, will start to grow, and produce other
plants. We should avoid letting it go to seed,
of course. Any hay containing much couch of course. Any hay containing much couch
grass should be cut early-before the seed has grass should be cut early-before the seed has
formed sufficiently to reproduce itself, else ther is danger of it being spread through the applica
tion of stable manure. The roots usually grow in the surface soil to the depth of three or four inches. The first method to adopt is surfac
cultivation, and use the sun and frost as much as possible to destroy the pest. Work at it,
therefore, in the hotlest and driest time of the year, which is As soon as the crop is harvested plow the
ground with a two-furrow gang, and turn the grass up to the depth which it grows, and then work on the surface as many of the roots a possible, exposing them to the sun. If the roots
are not too bad I like to kill them on the ground, are not too bad I like to kill them on the ground as they furnish a in of plant food for succeed-
ing crops. If too bad to this, rake up into
winrows with the horse rake or weeder, and when winrows with the horse rake or weeder, and when
dry enough to handle pile it in small piles and burn it, or cart it away to a stone heap o
some place where it will die. There are some seople who think it will grow from the ashes. I
peel pretty safe. however. when it is reduced feel pretty safe, however. when it is reduced to
ashes. I then plow, cultivate, and harrow again, ashes. I then plow, cultivate, and harrow again
and do as much work as I have time for in the
fall in this way. Then, late in the fall, just be fore the ground freezes up solid, I rib tho kand soon and prevent the roots from frcezing hard.
the frost seems to freeze tne moisture out of the roots, and thus kill all that are exposed. In
the spring I prepare this for a crop of corn, and the spring I prepare this for a crop of corn, and
hy planting it in hills, and cultivatithe both ways the quack grass is pretty well subdued. In the
spring preparation for corn, 1 would apply the spring preparation for corn, 1 would apply the roots more or less, and helps to smother the
roots in the ground by the thorough cultivation afterwards.
The smothering process entails less work. One way of applying this principle is to let the quack
get nearly headed out and then plow it down geep when the ground is quite dry, following with good cultivation, and this method has proven
successful. However, it is pretty heavy work, seasons and on the looser soils. T find a satisfactory way is to plow shallow
late in the fall, just before it freezes up for good, late in the fall, just before it freezes up for good
and leave the ground rough by cultivating it
down so the roots stick up all over. The frost does a share of the work. Then, after the spring grains are sown, replow this ground; dick and
thoroughly work the land until the soil is lonse.
Tn order for the guack roots to grow again they Tn order for the quack roots to grow again the
must have the soil packed close to them, then
we wish to prevent them retting. air or light and we wish to prevent them getting: air or the dancrr
thus storing up more vitality. Ater the
of late spring frosts are over. sow with huckwheat, and when alout a foot high flow it under in time that al seed-bed can be prepared on this
for sowing buckwheat again by tree 12 th or 1.5 th of July. This crop, sown at the rate of three
pecks to the acre, I would harvest. The buckwheat sprout quicky, the soil looce, and mosi "round perfectly, keeps the soine There are some
effectually smothers the auack. The
who apply the same principle by workin? the land who apply the same principle by workine the land
as I have previously described until the middle of millet or preferred) quite thick, and this smothers the quack just as effectively.
The main principles I have ohsorvorl in killing nuack grass are, to use the sun when the soil i hottest, and the fret the soil loose, and then follow
cultivation to get
with a smothering crop. Thorough cultivation in a hoe crop is a smothering nreerss. G GYNOR.

The Meadow Lark.
This is a common bird in Ontario, but, un-
fortunately, its numbers are decreaaing year by
year. We do not need to seek far to find the ause of this. The enemies which are destroying this noble bird are crows, skunks, etc., and men
with shotguns. We cannot keep the natural nemies altogether in check, but surely something
can be done to prevent the wanton slaughter by the so-called sportsman-more correctly speaking, the ignoramus from town who thinks it is sport fly high nor swiftly, and is therofore an easy mark. The farmer should order all of these
maitly, and is therofore an easy shooters off his premises, and use every other effort to protect the bird which is one of the mos
useful to him. From. March till November we see this feathered friend in our meadows and cultivated fields. it feeds exclusively on insects, and to a larg vizent on those which are our nspecial enemy known or heard of a meadow lark eating fruit or grain, though he may be seen in an apple tree though the wireworm and cutworm are both under the surface of the ground in the day time night is the time for "deeds of darkness" stinct directs to their hiding-place. Later on the season, beetles, caterpillars and grasshoppers form the food of both old and young. Even in Winter (and I have known them to stay here all
winter) they do not eat grain. stomach of one which was shot in January by "hunter " (he won't come hunting here again in


Moonrise
Junior two-year-old Shorthorn bull. Winner of Arat prize at Birmingham and at the
which it evidently had eaten in some refuse piles in a nearby garden.
The nest is built
The nest is built on the ground in the havfield itten when the hay is cut the young birds are
left unprotected from the heat of the sun and sometimes perish. It is very easy to bring a by placing it upright in the ground and piling some hay round it, to construct a screen. Here I have known the old birds to feed and care for sccords occupied in building the structure were seconds occupied in building the structure were
never missed from the day's work Woodman, spare that tree."
Sportsman, spare that
tor

## Manuring for Uniform Production.

## A well-respected retired farmer told me the other that he believed hollows or lowing portlons of

 fields required manuring as well as hills. I believe otherwise, for in a bad year in a wheat field (winterkilled) the hollows are the spots that grow litile hothing; or in the case of a good year, grain in the till plowed under. Again, if roots are grown in the field in a wet year the hollows are a mess of rotten turnips or potatoes. My, idee is that this is due to to bring an even crop over the field or ordinary roll-
ing, loamy land. However, I ask the opinion of others on this subject.
[Note. Where the surface of a field is rolling or hily, the low places receive some benefft from leaching
from manure applied to the high land, and the washing y rains of part of the best of the surface soil from
he hills to the hollows. so that the low places do no he hills to the hollows, so that the low places do not
need so much manure as the higher land. The soll In
low places, as a rule, has more humus or vegotable matter in its composition, and hence is in better pliywhich may account for the greater production of atraw. The rotting of turnips or potatoos in low ground is generally owing to insufficient drainage and an overplue

## Making Hay.

There is every prospect that the hay crop in most handled this may prove a valuable asset to the farmers of this country, not so much from its sale in the raw state as from its judicious use in feeding stock, in the
production of meat growing of young animals. The value of hay for these purposes depends largely upon harvesting it at the right time and in the best condition. It is a mistake to dothe crop is near the ripening stage, as the stalks then become woody and lose much of thelr palatability and nutritive value, and the crop is more eacily and seri-
ously vamaged by dow or rain in the procees of curis ously ulamaged by dew or rain in the procees of curing.
Of course, one must be guided in the cutting of the crop by the condition of the weather, and a showery season may deffat the best of intention and affort. Rut if the weather be favorable, it fis well to begin the har by unfavorable weather, or delayed from lack of help. the last cutting is lieble to become overripe, and io deteriorate in feeding value. Another important coosideration in favor of early cutting of clover th that
the aftermath is cortain to be much more abundant, and this, in the event of a dry time after harvest, may prove a boon as pasture for stock, or may he harvested second crop of hay if not needed for pasture.
These remarke apply

These remarks apply
especielly it in in colovers, but also to a
conqiderable extent to timothy and other grasser as well, partially dried clover or hay of any kind is oxpoeed to
the induence, of dow or rain induence of dow or orter will be
rat the quality of the hay. if, therefore, im-
portant that it thould
diried quickly, by ex dried quickly, by ox-
osure to sun and air, by belng turned ani coses rep ropeatedly,
either by fork or ted
der, and gethered finto oils the same day loaded from them the wide loaded from the win-
row and stored pelore
dew or rain falls upon dow or rain falle upon
it. The early-cit heyy
is more likely to be more likely to be
well and anely gured is
feft for two or three ays in cockg to sweat efore stored the larger in bright weather in bright weather the same day or the second day. This is quite pree-
ticable where the tedder, the eide-delivery ralk and hay loader are used, as in that case the hay is not at any time packed tightly as with the old-atyle rake, but handied loosely, and
in the entire process.
The Forestry Building at the Lewis and Clark Exposition, at Portland, Ore., is an imposing istriceture. It required no carpentry, being built entirely with tree nails-bark shingles, framed together pins. It occupies a space 102 by 206 feet. The The logs above these, which make the walls, are
not less roof-supporting pillars are 6 feet in diameter and 48 feet high. The roof and upper part of the walls are of cedar shingles. The logs are all left in their original state, with the rough bark still
clinging, and nothing has been done which would clinging, and nothing has b
lend an air of civilization.

Two yeare' investigation of red clover at the Maine Experiment Station showed, among other
things, that the European clovers were invariably things, that the European clovers were invariave, while American clovers were invariably more of less hairy. It is thought this may be an im-
portant fact in relation to the dustiness of hay.

If You Want Anything
AND DON"T KNOW WHERE TO GET TY, ANT ADVERTISEMENT IN THE O WANT AND TOT SOCEATE COLUMN OF TAE TVAR "IR GIET IT FOR YOU. THE FARMDAR'S ADVOCATM aND HOME MAGAZERE, YOMDON, ONE.

Farmers Demand Better Mail Service. The East Middlesex Farmers' Institute, at the
recent annual meeting, adopted, unanimously, resolutions in favor of Government regulation o the telephone service reaffirming their approval
of free rural mail delivery, and asking that here of free rural mail delivery, and asking that here-
after rural post omfces receive a daily mail serafter rural post offices receive a daily mail ser-
vice. In the discussion, several strong speeches
were made in support of these propositions, parvice. In the discussion, several strung speeches
were made in support of these propositions, par
ticularly the latter. Cases were cited where in ticularly the latter. Cases were cited where in
old and well-settled farming conmunities farmers
are only receiving their mail two and three times are only receiving their mail two and three times
per week, while in the city, a few miles distant, people have their mail delivered at their homes
twice daily. In many cases farmers have to go long distances to their local post offices, and thei to have only a service twice or thrice weekly with business of importance at stake, is coming
to be regarded as an imposition which should to be regarded as an imposition which should
not be endured, and for which there is no good
juetification, when the resources of the Governnot be endured, and for which there is no good
juetification, when the resources of the Govern ment are considered. The action of the East should be adopted by farners' meetings generally. Copies of the resolutions adopted should, in all
cases, be forwarded to the local member of Parcases, be forwarded to the local member of Par-
liament, and also to the Postmaster-General. Personal representations by letter, pointing out
srecifically the needs of communitics for a better specifically the needs of communitics for a better
mail service, should also be made, and will materially aid in securing what is desired. People made known, to have them promptly met

## DAIRY

New York City Milk Supply.
The past ten years have shown wonderful adfar human consumption. Five the milk supply rend was to fix the value of milk by its food contents-the solids it contains-and for all practical purposes this was estinated from the fat satienty the public, especially the medical professatiefy the public, especially the medical profes-
sion, which is deeply interested in the subject. ston, which is deeply interested in the subject.
It was felt that milk should not only contain
the maximum food value, but that. it should the maximum food value, but that it should reach the consumer in condition as possible ; or, in other words,
hat it should be fresh and clean. The cleanli hess of milk is ascertained by a bacteriological xamination to determine the number (colonies they are called) of bacteria in a cubic centi-
metre of milk. A cubic centimetre is one-thitieth of an ounce.
That the public at large is taking a greater
interest in a pure-milk supply for large cities, is evidenced by publications on the subject appearing in the American monthly magazinee and in the New York City daily press. As the largest
city on this continent, it is interesting to know city on this continent, it is interesting to know that very necessary article of diet, milk. The consumption in Greater New York every day is
approximately $1,500,000$ quarts, besides the condensed milk and cream, of which a large quantity is used. It is distributed by 3,500 wagons
and $\mathbf{1 1 , 5 0 0}$ stores. With the ever rapidly-inand 11,500 stores. With the ever rapidly-in-
creasing population of New York an increased
quantity is required uarts.
Of the $1,500,000$ quarts distributed in New York every day, about 450,000 quarts are bottled of certified milk and 2,000 of inspected milk. bout $1,000,000$ quarts are sold from stores "very day. Certified and inspecteci milk is produced
under the direction of the Medical Socicty of the County of New York, which has formulated strin-
gent rules for the praduction on the farm, looking to absolute cleanliness. An agent of the is given. The Society gives to the producer a
metal cap, bearing its name, with which
to seal the toll of to seal the top of each tontle. It
makes weekly bacteriological examinations of the milk to see that it does not coll
tain more colonies of the hact ria than are al-
lowed by their rules-in case of certified milk, lowed by their rules-in
30,000 . inspected, 60,000 .
Health of New York (ity dors not the Ronsiderd milh
unhealthy which contoins million unhealthy which contains a million hactoria pur
cubic contimetre. The minimum fut in inspected The cortificd milk sells at from 13 to 15 cents A quart. Neariy all groceries and delicatessen
stores sell milk (dipped milk) that which is botted milk, though comparatively, ery little
of it The usual price of botiled milk is pight cents a quart, and of dipped midk five cents a
quart, in summer, and six in winter quart. in summer, and six in winter. In thickly-
ponulated sections of the city some dipped
milk ", is sold as low as four cents a quart, but The milk supply of (ireater Now York is
drawn from a radius of from ton to 450 miles
of Nrw York "its. and includes the States of
cut and Massachusetts, and a small quantity comes from Canada at points adjoining this
country. There are 20,000 cows kept within the city limits, principally in the suburbs.
There are 1,223 dealers selling milk. usual in a business of such vast proportions, the greater part of the milk trade is in the hands of "leaders" in this business. One firm deN. Y., and another over 40,000 . There are also leaders" in the can trade, who deliver fortystores.
The
The price paid each month for milk is fixed change, an incorporath by the N. Y. Milk Ex100 of the leading dealers of New York. The price is usually two to two and one-half cents cents per quart in winter. An American quart is about one-fifth less than the imperial. Th
freight and five cents a can for ferriage are ducted from this price. New York is an island The North River runs on the New Jersey gide of it, and the East River on the other side.
There are but two railroads entering the city Chere are but two railroads entering the city on the ferries in iarge four-horse wagons; hence the charge of five cents a can ferriage. The
freight depends upon the distance from which reight depends upon the distance from whic
the milk is shipped. If within a radius of 40 miles from the city, the freight per 40 -quart can
is 23 cents, for 100 miles 26 cents, for 190 miles is 23 cents, for 100 miles 26 cents, for 190 miles 28 cents,
32 cents.

The milk supply of this city is made at 15,00 farms, and is gathered at some 450 receiving stations (or creameries as they are called) which are scattered in different sections of the State
and are usually owned by the dealurs in the city The "milk trains," contrary to the old custom, are run on express tinue, and often exceed in speod the fastest passenger train. Some milk of that intended for bottle delivery is shipped in cans to save freight, and is bottled in the city in the large plants of the dealers, The milk trains begin to arrive abrout nine o'clock in
the evening, and continue to arrive until near the evening, and continue to arrive until near
midnight. It is a sight to see the enormous
wagons drawn up at the wagons drawn up at the long platforms at which the milk is received, and crossing over the ferry
with the empty cans and returning with the full wnes. The milk is iced in transit by the rail-
onead. Blocks of ice are placed on the cans, and
roan road. Blocks of ice are placed on the cans, and
if any ice is left over on arrival the railroad people give it to the milkmen to place on or people give it to the milkmen to place on or
around the cans in transporting them across the The milk supply is controlled by the Depart which the chief official is the health commissioner, appointed by the mayor. The health com-
missioner is also president of the Board of
Hlealth Health. Each borough into which Greater N.Y. is divided has its local board of health, but the
head office is in Manhattan-Old New York beThe Buard has
ries and a very large staff of employens latinratories and a very large staff of employees. Anong
them are thirteen inspectors, whose duty it is
to inspect midl to inspect milk on its arrival in the city, at the groceries and delicatassens, and on wagons in
transportation across the city, or while buing delivered to customers. They have power to seize and condemn any milk that does not comply with the law. Two of these inspectors are are paid by the city and are under its directions, as the jurisdiction of the health commissioner of
New York City does not One of the most stringent laws ind limits. is that the milk on arrival must not af acoed $5 n^{\circ} \mathrm{F}$. in temperature, and must not be at any higher temperature when exposed for sale in stores.
When milk is at 50 F . the growth of bacteria is retarded: at 80 to 95 hacteria multiply very very into the river or guatter in stores, they turn it
The use of preservatives is not permited. ancl The use of preservatives is mot permitt ad, and
a constant warfare is waged against their use.
Formalin is that which is most often used by those who try to avoid the law. often used bormalin in
the milk renders the casein less diprostiln pecially by children. The adding of gelatine to
cream to thicken it is a farorite The sale of shim milk is prohibited. While it are necessary for infants, thire sefems no mood than whole mikh. should no sold so much cheaper
sold, cxcept for fear that it to to thent be palmed off
is whole milk Skim milk to whole milk, is punishable by fine The Health Denartment uees the iambeork As I have said. the authority of the Board of reaches the city, but the readers of the "Farm-
's Advocate." need not he told that. to ensure
clean, pure milk, the beginning
at the farm. It is a deplorable but undeniable objection to many farmers have a deep-rooted production of milk. Dr. Darlington, President of the N. Y. City Board of Health, l:as found by experience that a little persuasion is good, but
that forceful measures are sometimes better. and his State inspectors are constantly visiting the farms where the milk is produced and the creameries where it is received. If they find milk is being produced at the farm under unsanitary the farmer has pointed out the error of his ways, and suggestions are made to him for the betterment of such cond buts if the former is obdurate and will not comply with the requirements of the Health Board, an inspector camps on his trail. A visit is paid to the creamery which receives his milk, and the one in charge is told of the inad
visability of receiving any more nilk from that particular farm. If the farmer ships his milk to the city by rail, it is followed by the inspecit reaches here. Dr. Darlington believes in when suasion first, as he has no desire to put anyone wit of business, but if the health of the porple ieopardized by unsanitary or unwholesome milk, drastic measures have been and will be applied by the Health Board impartially to the farmer, the middleman or the selle
All raw milk, as contrasted with condensed milk, sold in New York, must contain not less
than three per cent. fat and twelve per cent. total solids. By this it is presumed that the ratio of fat to solids other than fat are as one
to three, and this is the usual ratio necessa comply with the legal requirements of each State fat and country. In England it is 3 per cent. would like to cent. solids other than fat. I quantity of milk which contains not more thang per cent. of fat and has 9 per cent. solids other
than fat. If there is I do not know it am pretty familiar with the milk situation and milk analyses. Will some of your readers enand examine the ratio look at the public tests at, and see if it accords with the usual legal perfectly aware I am raising "a leading I nm tion." but it is one worthy of being discussed. A strange condition of affairs in this State the fat in milk. By the laws, as they regard to the farmer's cows can produce milk containing liess than 3 per cent. fat. The producer can decannot te successiully prosecuted station, and he but the moment the receiver sells this milk it, can be successfully prosecuted for selling milk beagent at the receiving station the dealer or his the situation. . $\Lambda$ "clarifier ". ${ }^{\text {as }}$, fully alive to creamery, or at the N. Y. City depot, to clarify
the milk. it is nothing more centrifugal separator. The morean is separated milk, or separated milk, are suppos and skin added together again. But are they? I will leave your readers to decide this question by
stating the facts. In certain sections other States milk is delivered st ans of this and stations containing 5 per cent. fat, frequent ang
alyses by the Babcock of bottled milk sold at 8 cents a quart, rarely show more than 4 pe per cent. What became of the per cent. and 4
the milk between the time it was in the milk between the time it reached that was in
station and its deciving has been repeatedly asserted in consumer It 40 -quart cans of whole receiving stations eleven when it has teen clarified 1 can tef received, and cans of whole milk will be in its place. Yet the
legal requirement of 3 per cent. fat has bee complied with.
$\$ 30,000$, with which it has an appropriation of to visit the thichly-populated paris of the city
where the poorer classes live how they can best casses for their and teach them the past winter I dow to modify it. During
York, Brooklyn and lecture in New joint auspices of the Boards of Health ander the
cation, on :" Milk from the Fdul Wastrated by stereoptican varm to the Table, "as very large on each occasions, and seemed very
much interested in the subject. The lecture was
oducational
Dr. Darlington is a progressive, energetic.
painstaking official
pily been remored department has happly been removed by him from politics, and a
vapt anount of oond has been accomplished.
This is evidenced This is evidenced by the fact that at the present
time but 10 per cent. of the samples of milk taken by the inspectors as suspicious (not 10
per cent. of the whole) are condemned as adul
terated or deleterious. whone per cent. of suspicious, whereas five years ago 33
As a natural cosp were condemned
fants has decreased to a very appreciable extent.
With the crowded conditions of part of New With the crowded conditions of part of New customs or even to our language, and ignonant
on the subject of milk, the tremendous death rate of a few years ago among infants was
traceable to a large amount of milk unfit for traceable to a large amount of milk unfit for am glad to say that science and practice, going in our milk supply that New York has never in our milk supply that New York has never
seen such good milk as it has to-day, and that
no large city in this or any other country is no large city in this or any other country is
receiving any better milk than New York. receiving any better milk than New York.
VALANCEY E. FULEER.

## Caring for Milk on the Farm

The following notes, sent out by the Ontario
Department of Agriculture and Dairymen's AsDepartment of Agriculture and Dairymen's As-
sociations, were prepared by Prof. H. H. Dean, of the Ontario Agricultural College, and are worthy of careful study by every milk producer: The cows should be healthy and clean. Colostory. The stable and pasture should be clean, dry, and free from bad odors and bad-smelling
weeds. The food should be clean, pure, sweet weeds. The food should be clean, pure, sweet
and wholesome. Cows giving milk should not and wholesome.
be allowed to eats ${ }^{\text {Cow }}$ bivewers' milk should not be allowed to eat brewers grains, dismeal, spoiled hay or spoiled silage, cleanings tend to taint the milk.
Either rock or common salt should be accessEither rock or common salt should be access-
ible to the cows at all times. Plenty of pure ible to the cows at all times. Plenty of pure
water ought to be within easy reach of milking
Foul, stagnant, or very cold water are njurious. Cows should be milked with clean, dry hands,
after wiping the teats and udder with a damp after wiping the teats and udder with a damp
cloth. The milk should be strained at once after milking through a fine wire strainer, and also through two or three thicknesses of cheese catton.
The strainer needs special care in keeping it clean. The pails and can must also be clean. The milk should be removed from the stable or milking yard as soon as possitle after milking
It should be cooled at once to a temperature of It should be cooled at once to a temperature of
60 degrees-certainly below 70 degrees-by setting the cans in tanks of cold water, and by stirring
the milk, in order to facilitate cooling rapidly. Where a supply of cold water, under pressure, is do the work more quickly, but it is very necessary that the air be pure where this form of caoling is adopted. After the milk is cooled to 60 degrees (and where sorning's milk is to be kept over until Monday morning, the cooling should be so low as 50 degrees in the hot weather, the cans may be
covered with the lid or with a piece of danup covered with the lid or with a piece of damp,
clean catton. By leaving one end of the cotton in the water, evaporation will tend to keep the milk much cooler. Night's and morning's milk should be kept separate as long as possible. If the milk be placed on a milk-stand for
some time before it starts to the factory, the some time before it starts to the factory, the sides, and the whole neatly painted a white
color. Milk should be protected from the ciys color. Milk should be protected from the rays
of the sun, from the dust and from the rainwater
If possible, the cans should be covered with a especially in hot, dusty weather. It is needlyss especially in hot, dusty weather. It is necdpss
to say that the wagon, the nan, the horses and
the harness should be clean, and a credit to the the harness should be clean, and a credit to the
great dairy industry of Canada. great dairy industry of Canada. which are not.
Where practicablo, the cans whe
used for the returning of skim milk should he used for the returning of skim milk should he
washed and steamed at the creamery or choes.ry
as soon as possible after being emptied. Sour
whey or buttermilk should not be put in the cans as the acid destroys the tin and causes the cans to rust. Iusty cans cause bad flavor in the milk. It is safer not to run whey in the milk can. A separate vessel should be used for this
purpose, if the whey must be returned to farm. If the whey must be returned in the the milk can, it should be emptied at once upon its ar-
rival at the farm, and the can thoroughly washed rival at the farm, and the can thoroughly washed again. The whey tank must also be kept clean
The two main The two main points in caring for inilk ere, to have everything clean, and to cool (especially temperat's milk) as rapidly, as possible to a
temperatow 70 degrees, and to 50 or ail
degrees, it degrees, if possible. KEEP COOL !
BE CLEAN ! KEP

## Rules for the Milkers.

The following is the text of the rules for milking MILKER MADK TEIS Warmer

1. The cow is a living mach'ne. (a) Kiadly treat 2. Good work improves the living machine. (a) Milk clean. Cleam millding develops the udder, and with this increases the quantity of milk, and (b) You receive
richer milk. (c) Remember thist the mill
richar milk. (c) Remember that the milk last drawn
is far the most valuable.
2. Cleanly milking. (a) You should wear tidy and 3. Cloanly milling. (a) You should wear tidy and
clean clothes. (b) Have the milk pail cleam as well as the creemery can. (c) Thoroughly clean the udder by rubbing with a piece of linen. (d) Wash the hand dry before you begin to millk.
3. Carry out the work properly. (a) Milk with
dry hands. (b) Seize the teets with the whole hand. dry hands. (b) Selze the teets with the whole hand.
(c) Keep a gentle pressure or the udder. (d) Milk as fast as you cank, and never cease working until the milk is wholly drawn. (f) Don't strain the teat beyond its natural length. (f) Remember the value of the last
drops.
5 . Healthy state of the udder. (a) if there b 5. Healthy state of the udder. (a) is there be
soreness or lumps in the udder or teats, stoppage in the milk canal, or unnatural colored milk, don't mix the milk with any other, and don't send to the cream-
Milking times. (a) Begin milking always a

G. Gordon Whyte, B. S. A.
fixed times. (b) Milk the same cows in the rame order hegard this excellent work as one of honor farmer, mark this well.
4. Clean the cows.
5. Have good air in the stalls.
6. Light should be freely admit

## FOULTRY.

## The Feeding of Chickens.

Several queries have recently reached us, askIug for information as to the cause of death of chickens, and post-mortem examinations have, roer feding was responsible for the loss There s no great difficulty in the feeding of chickens, and there is no reason at all why errors in this direction should occur Nevertheless, several poultry-keepers, not only beginners, but also those of experience, constantly find much trouble in the feeding of their birds. Appended are just few of the errors hito which poultry-keepers ommonly fall in chicken-feeding
2. Giving foods of a too-concentrated char-
3. Not supplying a sufficient quantity of animal and green foct Chickens do best when fed a little at a time, and at frequent intervals. Where they have as much as they will eat; but more than thin should not be placed before them, as the surplus amount is bound to become fouled and tapinted by lying about the yard, and so not only become
wasted, but is calculated to give rise to earious troubles, that may end fatally if, perchance, the chickens may partake of it in such a condition. Attention should also be paid to the importance of providing a constant supply of fresh,
clean water. No more common cause of disappointment in chicken-rearing exists than that of neglecting to keep the drinking water pure
and fresh. Impure and dirty water, whether it he in vessels that have not been refliled for perhaps two or three days, or in a stagnant peol, is one of the most fruitful causes of disease
among poultry, both as chickens and as older among poultry, both as chickens and as older
birds. Several of the most successful pouitrykeepere make a point of changing the water left for their chickens as often as twa or three times

The Row Among the Reds.
To the Editor "Farmer's Advocate "
Sir,-I see by your paper of June 8th that some are having a fittle difficulty in distingulishing between the Rhode Island Reds and Amthe same breed. There is no distinction, as they are he same breed. The singlo-comb Rhode Tsland The rose-comb variety were to be admitted a year later. Some few of the brecders of that variety alone decided to name them American Reds, and as such the committee having charge
of the compiling of the Standird admitted them. It was not done lepally, however, and thit 1 is what has caused the kick. When the only diference in the two breens is thnir combs, we
think they are easily distinguished by calling them single-comb or rose-comb. withnit riving them two distinct names. $\quad$ S. H. SMILEY. Flgin Co., Ont.

G. B. Rothwell, B. S. A.

W. C. McKillican, B. S. A.


W, J. Lennox, B. S. A.


Harriṣ McFayden, B. S. A.

GARDEN AND ORCHARD.
Luther Burbank and His Work Our readers will be much interested in soeing toOur readers will be much interested in soelng to-day
the portralt ol Luther Burbank, whose apparent miria-
the portrat of Luther Burbank, whose apparent mira-
cles in plant life have drawn upon him the attention of


Burbank Rose, which the Gold Medal at
Louistana Parchase Louisiana Purchase Ex
ottion, St. Louts, 1901 him the attention of
the world. Of his
work it is scarcely
 Everyone
something of what
he mas something of wha
he has accomplisher
of how he has of how he has ham-
ished the thorny trom the cactus,
turned the yellow
Californial California
crimson, poppy
produced
 wil not lose its
perfume, and created
new frutts-the new frutts-the plum-
cot, for example,
which is a cross bewhich is a cross
tween the plum a
apricot-while apricot-while mar-
vellously improving others;
everyone,
hut
porhat realizes the econo-
mic value which his mic value which his
productions To quote from the
New York Inde-
pendenti. . are more prolific and of fruit have been produced that are more prolific and
tardier, growing in regions where the old varieties fmiled; the fruit season has been prolonged several
months by early and late bearimg varieties: keeping monthr by early and late bearing varieties; keeping
quallities have been developed so as to stand long dis tence shipment; frults have been made larger, stones removed, thorns ellminated, shells made thinner, flavor,
color and odor improved, and entirely new truits pro color and odor improved, and entirely new truits pro-
duced. Graing and fodder plants have duced. Grains and fodder plants have been mad
langer, more prolfic, more nutritive, and to have les waste; cotton, rice and sugar cane have been improved To fowers have been added beauty, grace, perfume, ly be estimated
Mr. Burbank lives very quietly at his home at Sant Rosa, Cal., where he is carrying on his experiments on a glgantic scale, which requires all of the vast profits his farm at Sebastopol, Cal., "there are now growing 300,000 varieties of plums, cach tree grafted so as to contain 500 different kinds; at one time there were nearly or quite 500,000 lilles growing on the place
and 26,000 roses ; the thornless blackberry was selected and
from 65,000
seedling plants, and from nearly a million seeding pears no tree worthy of propacation was produced." But, quietly as he lives, his name has
travelled far to lands across the sea, and everywhere it meets with recognition. When it was spoken in the French Chamber of Deputies at Paris recently, "' every member arose to his feet as a tribute of honor."
The following hetter, from his sister, to the Indo My brother was born Mach
beautiful and historic town of Lancaster, Mass;; reum On N Now England
var varied forms in
made the best use
all his opportunities.
man of
and stro
nd strong convictions a grod business man
who gave each child th
best example

while my mother, po
(Reduced from life size.
ssing a remarkable
oubt transmitted the inventive and horticultural tel dencies to her son. Luther's
in the window anid in mother's
uthlessly destroyed a blossom, but loved them al hand would always stay the falling tears
A quiet, retiring child, shrinking from
spenit much of his time with nature ; he knew more than anyone else about the apples in the orchard, the will
berries on the hillside and in the meadow grassocs, thil berries on the hillside and in the meadow grassies, the
chestnuts and hickory nuts in the woods. He hnew
where to find the first where to find the first blossoms of spriny and the
brighteat flowers of summer. The birds and animals allured him, and no rock, tree or cloud escaped his
notice. with the power of individualizing which he possesses in
such a remarkable degree, was early developed. Both
 in the district school and the Lancaster Academy he ex-
celled in scholarship, and was a favorite with teachers and classmates. Our home was always supplind with gic libraries in the State: he availed himserif of thos-

as a life work, and the science of health has always
been of groat interest to him ; with naturally a frail accuired that few men have been able the knowledg much real work in life as he. Utilizing all his powers, physical and mental, at the age of firty-five years, he
each morning takes a cold sponge bath and a few Thysical-culture exercises, and is as active as a boy harmony wit
another subject of interest to him is mechanics, al ways keeping in touch with the latest discoveries an


Luher Burbonk.
with an o'd teakettle in the backyard. While studying nt the Academy winters, he spent the summer months
at Worcester learning the patternmakers' trade; his letters written to the home folks while there reveal his intense love of nature, and to her call he respondell heginning his real life work in the production of the
Burbiank potato in 1873 . Coming to California in 1875, the lotters to Rosa Valley, afterward to become his hi scine of his plant transformations, appealed to his he husiastic temperament: earth, the climate is perfect, the air so speet of all the a pleasure to drink it in, the sunshine pure and sot The mountains which gird the valley are lovely, an human hand could arronge majestic ooks placed as no


Improved Peach Plum. Rranch $3 \frac{1}{2}$ feet Iong.
(Reduced from life size.)
ines, thed with tropical plants, palms, figs, uraners with every color of thes and blimb over the houses, loanted
arge trens, and fowlish ivy fills rember). The hirds are singing, and everything like fround enough curious it thents a long walk to-day, and found enowgh curious plants in a wile spot of about an
acre to sot a lootanist wild .."
had collectors in foreign lands, ant
 Penetrating into the exprore edge of the habits, characteristics, adaptability latent possibilities of plant life possessed by no other This has required patient toil, privationsis and self-denial; ften misunderstood, sometimes misrepresented, thwarted
nd disappointed, but never' discouraged or impatient and disappointed, but never'discouraged or
he has gone steadily on with his experiments Life is very simple in the vine-covered cottage Santa Rosa, with his plants as his only family ; nother, now past ninety years of age, shares his home vered by associates, respected by employees and loved Strong in his princlples and convictions, ho uses men addicted to their ase he recently declined to no an new brand of cigars bear his name and portrait. He subscribes to no creed, believing that each to-morrow "Find us farther thian to-day." Tender in his nature, he may be seen some early plants, to gently open the petals of a poppy where some belated bee, in his task of carrying pollen from flower to flower, had become imprisoned by the closing
if the flower for the day; the bee's smothered cry had reached his sensitive ear, and very tenderly he sets the little captive free, watching its glad fight in the bright sunlight. The only secret of success that he claims
is honesty with nature. When upon introduction one staid: "I believe you are the man who improves upon nature," he rather indignantly replied: "No, sir; I only direct some of her forces."
My brother has opened broad fields for development and made earth ric
spiration to the yo
He says: "I He says: "I shall be content if because of me
there shall be better fruits and fairer flowers."

## Berry and Fruit Baskets

It is desired to hereby draw attention to Sec-
tion 5 of the Act entitled "An Act Respecting the Packing and Sale of Certain Staple Comreards as follows 5. Every box of berries or currants offered for sale, and every berry box manufactured and
offered for sale, in Canada, shall be plainly marked on the side of the box, in black letters at least half an inch square, with the word "Short," unless it contains when level-full, as (a) At least four-fifths of
2.-Ever ba ruit. fored for Canada, unless stamped on the side plainly in deep letters at ieast three-quarters of an inch preceded widh the minimum number of quarts, oritting fractions, which the basket will hold when ievel-full, shall contain, when level-full, one (a) Fifteen quarts, or more; (b) Eleven quarts, and be five and three-
(p)arter inches deep perpendicularly, inside meas parter inches deep perpendicularly, inside meas-
urement, as nearly (c) Six and two-thirds quarts, and be four and five-eighths inches deep, perpendicularly, in-
side measurement, as nearly exactly as prac(d) Two and two-fifths quarts, as nearly ex-
actly as practicable actly as practicable.
3. Every person who neglects to comply with any provision of this section, and any person oxes in contravention of this fruit or berry iable on summary conviction section, shall be less than twenty-five cents for cach basket or 4. This section shall come into effect on the
first day of February, one thousand nine hundred By an Order-in-Council of June 9th, 1905, the foregoing section, and also section 4 of the Act, were assigned to the Minister of Agriculture for
administration. In order to protect the pubdic, no those box and basket manufacturers thio Minister directs that steps shall be taken the have the law enforced. Box or basket manufac-
turers will please accent this warnine turers will please accent this warning, and he stectors will be instructed to watch for violations of Section 5 , but any person may lay an infor-
mation against those who fail to carry out the McNETLL.

Can Be Safely Commended.

I thank you for the beautiful knife you sent me as
riremium-it for exceeeds anything $I$ had hoped for a premium-it far exceeds anything I had hoped for-
I always speak a good word for the "Farmor's Adoo-
cate and Home Magazine." for I think every farmer

Spray Potatoes for Fungus as Well as. Bugs.
Althougk, since the advent of the unwelcome Fotato beetle, spraying potatoes with poisons has very much attention has been given to spraying for blight and rot. There is, nevertheless, abundant evidence to prove that the use of Bordeaux
mixture in coniunction with Paris green is mixture in confunction with Paris $\begin{aligned} & \text { green } \text { is } \\ & \text { highly } \\ & \text { profitable }\end{aligned}$ in sections where the above troubles occu
Like all fungous diseases, blight and rot must
be combated by preventive measures be combated by preventive measures. Bugs may
be poisoned and their ravages checked after they have appeared in some numbers. Not so with fungi, whick, having once gained entrance into the
plant, cannot be chccked, although spraying may plant, cannot be checked, although spraying may
still be of some service in preventing the infesta-
 tion of one plant from another it should be
borne in mind that the mycelial threads of the fungus permeate the pe plant before any blight or
rot is arparent. hence if we wait for signs to rot is apparent, hence, ir we wait ior signs to
appear, a surfrisingly large proportion or hills
may have been infected. The only way in which may have been infected. The only way in which
spraying can be of use in combating fungus is in keeping the vines coated with the spray mixture,
so as to kill the spores before they have a chance to enter the plant tissues. It may be noted here that late blight and rot are both caused by the
same fungus, acting in one case upon the leaves, same fungus, acting in one case upon the leaves,
in the other upon the tubers.
Spores ripen upon the leaves, fall upon the ground, and are washed through the soil upon the tubers by rains. Hence spraying for, late blight ordinarily prevents
any but slight damage from rot. No one need point out the loss caused oy rot,
but a word may be in place on the damage done by blight, which stops the growth of vines premathe quality of the tubers. In some tests a Geneva, N. Y., it was noticed that the growth of unsprayed potatues was checked very early, and
was practically ended by the lirst of September. As might be expected, these immature tubers were of inferior quality. This was shown by
chemical analyses, aud by a cooking tost. Fifty chemical analyses, and by a cooking tost.
consecutive hills on a row sprayed five times with
Bend number were taken from an adjoining unsprayed row. In the fifty sprayed hills there were 265
tubers, in the unsurayed ones. only tubers, in the unsprayed ones. ony
potatoes from the sprayed hills wighed and anost twice as much, on the average, as those from
unsprayed hills, weights being $61-3$ and 3 ozs., unsprayed hills, weights being $661-3$ and $3 \frac{1}{2}$ ozs., respectively. Chemical analysis showed about
onesixteenth more dry matter per pound in the sprayed potatoes, and one-ninth more starch. In cooking tests, the sprayed potatues were found noticeably more mealy than the others, and they

But the most convincing argument for spray
 Station, on "Potato Spraying Experiments"" 1904.. Under dircection of the station authorities, a number of "Farmers" business experiments
were conducted last year.
Fourteen potato growers who were intending to spray eo-operated
with the Station in the work, and carried out the tests. The growers furnisted apparatus and ma-
terial, and did the work as best suited, their own plans. Each experimenter was required to leave a few rows unsprayed in a representative portion
of the field. $\quad$ The Station merely gave advice ing susticiently to obtain an a accurate ne easure of
ine effect of spraying. A row or more in the untreated part was compared with a similar row
or rows in the sprayed section. The tests were all on a large scale, 2 the acres being the small-
est area sprayed. and the fields were satered all
over the Stuate lin thirteen out of the


## fac

dissolve the bluestone in separate vessels; mix
the Paris green with water to a thin, soupy the Paris green with water to a this, soupy
paste, and stir into the barrel int which has paste, and stir into the barrel into which has
been previously put the milk of lime, the blue
stone solution, and water enough to make 40 stont
gallons.
When
water enolgh to make 40 When the potato beetles first appear, spray
with this mixture, and repeat every ten days or
two two weeks thereatter, so as to cer) the ioliage coated with the spray mixture as long as inc
plants remain grieen. may be omitted after the bugs cease to be trouble, some. If rain comes before any application is dry on the vines, the treatment should bo repeated. but spraying should not be stopped just
because it . " looks like rain." Just after a warim rain, followed by muggy weather, blight spreads fastest. and the plants most ned protection. 1 t.
requires but a short time for the inixture to dry on the vines, and then it takes a heavy rain to wash it off. Every effort should be made. there-
fore, to complete the spraving bifore the rain fore, to complete the spraying before the rain
comes. The man who sprass with Paris green

## Maine Experiments with Vegetables.

Bulletin 113 of the Maine Agricultural Experiment Station gives a summary of some of the It is shown that the earliness and productiveness of tomatopes is in direct ratio with the carriplants after a part of the iruit has set, increased the yield more than one-third; and that transplanting the young plants at least twice before Studies of the cabbage showed that frequent transplanting before removal to the field inthe young plants in pots gave better results than handling them in boxes; that depth of
setting had very little influence on the size of setting had very little influence on the size of
the heads ; and that trimming the plants at time of setting is not speciaily important.

## APIARY

## June in the Apiary

Keep up with your bees, especially in June, tring about such loss as when the bees are in the clover. Don't let them get ahead of you, been working for. June is the month when spring work, such as getting the bees and appliances into shape for the honey harvest, gives
place to the hiving of swarnas and the putting on of the supers. And happy is the bee man who a great big stack of nice white extracting combs ready to pile on top of them when he sees the fields of clover begin to show white and the tops
of the combs in his hives to do likewise. For each colony of bees a man should have two, or even better, three, supers of extracting combs, in order that the first honey stored may. have pleaty
of time to ripen before it has to be extracted to of time to ripen before it has to
make room for what is to follow. The time, to put on the first super is when the bees begin to
show signs of crowding below hy pulging the show signs of crowding below by bulging the
tops of their combs and depositing wax on the sidee of the top iars of the irames. If the putcossive swarming is liable to result. The time to put on the second super is when the bees have
got well started sealing the first. Set the second under the first, and the bees will hustle in loth. If the lower super be filled before the
lirst is nearly all sealed, a third is neceseary, as first is nearly, all sealed, a third is necesseary, as
in no case should the honey be extracted until it
is at east is at least three-quarters sealed. If it is all
sealed, so much the better. Space the frames wide apart by putting only seven in an eightframe super, or eight in a ten-frame one. The
bees then draw the combs out very thick, and it is not unusual to get from eight to ten pounds from one comb. If there are not sufficient combs
to go around, use full sheets of foundation into go around, use full sheets of foundation in-
stead, and never think of putting on an extracting super without, a qucen-excluder between it and the brood nest. There is nothing it pays a beeing combs-more than he thinks he will need-for when the bees get a big rull of honcy from basswood, as they sometimes do, it, will surprise any-
one who has never geen it before how fast they one who has never seen The basswood flow only
will fill up the supers. Ther lasts about a week or ten day's, but there is
nothing that is more worth while being ready for
when it comes: and if you are not ready it when it comes: and if you are not ready it
won't wait. I have taken the "Farmer's Advocate and Home
Magazine " for several yrars, ind have received a great Magazine" for several y"ars, and have received a great
d. E. KINCH of henefit trom it.

## Canadian.

A rich discovery of gold-bearing quartz has been ro-
Hon. David McCurdy, for 24 years member of the
Nova. Scotia Legislative Assembly, died June 1004h of pneumonia, at Baddeck, N. S. He was 95 years of age. Mrs. Leonidas Hubbard, wife of the explorer who
Werished in the interior of Labrador last year, has arrived at Halifax, on her way to Sillisport, where she
will oryanize a party and takie up the work at the ill organize a party and take up the work at the

This is the last year in which the millitary camp will
held at Niagara, where the 400 acres set he held at Niagara, where the 400 acres set apart. for for the district will probebly be in Northern Ontario Where the Government has reserved 25,006 acres as a nilitary training ground.

## British and Foreign.

The torpedo mines carried by the sunken Nuserian Warships are now coming afloat, and rendering nuvigti-
ion very dangerous im the Sea of Japan. Lieut. Peary will make another attempt to reach the North Pole. His expedition will set out from New
York on the Steamer Roosevelt on July 4th.

Russia has agreed to Washington as tho point at which negot
take place.
The Danish lmperial family has refued the crown of Norway for one of its Princes. In Norway the Nor-
wegian tricolor has in all places been holeted inteat of the union flag.
In commemoration of Togo's victory, a lighthoune whose light will be visible for 80 milles, covering nearly
the whole scene of battle, will be erected on Okino
Tisland Japan
Germany has addressed a note to the Powers, proGermany has addrossed a note to the Powers, pro-
posing an international conference on the Moroceap
question, qualifying the stop by the assartion that question, qualifying the stop by the onsertion that it has been authorized by Morocco. Germany'i action tha
the matter is looked upon as the begtaning of a pobsiblo European crisis.
Theodore P. Delyannis, the popular Premier of
Grecoe, was assassinated recently Greece, was assassinated recently while on the way to
the Chamber of Deputies at Athens. The aseusin, a profossionol gambler, stated that he did the deed in revenge for the l'remier's order that' all the gampling
houses in Greece be closed.

## THE FARM BULLETIN

## The Argentine exporters of live stock to Great

 Britain, in order to avold the prohtsition of the fm-portation of live animals, now mend 1,500 live ilioep Weekly to Ant werp, where they are slaughtered, and the price received for the acrosen to England. The onhanced ages this circuitous mode of trading.
One cause of the dearness of apples in Groet Britain at the present time is the comparative cacarcity of Aup-
tralian apples. Last year nearly 700,000 caseis were brought to the British market, but this yoar's ageregate is not expected to reach over 400,600 casen. This probably explains why from four pence to six cance a
pound is being asked for Australian apples. pound is being asked for Austraplian apples.
Wm. Rennie writes :" "We beg to call your atten-
n tu the article on ${ }^{\text {a }}$ The Clover Midge," June Eth Farmer's Advocate,", page 850 . In the third lamt sentence it should read, . While the red clover sis fertiti-
ized by the bumblebees, which are not developed in

What of the Round Cement Silo?
A good many round cement-concrete silow have bedn
in use in Canada for several years, and a correspondent "Farmer's Advocate" to send us for publication the result of their experience, stating: 1st, dimensions and thickness of walls; 2nd, how constructed, materinals ased, how finished, and cost; 8rd, how has the allage kept in them, compared with the tub silo; 4th; what
kind of hoops were used, and where obtained?. All which we mation can be put in a very short letter Temiscaming Farmers' Institute Meeting Supt. Putnam has arranged Farmers' Instituto mepe
ings in the Temiscaming District as follows: Haileybings in the Temiscaming District as Aolloww: Hailey
bury, July 5th ; New Liskeard, July eth ; Hulview, Sth; New Liskeard, July eth; HM1view,
Milberta, July 8th: Uno Park, July 10thic; July 11th; Fariton, July 12th; Heaelip

The speakers will be Prof. C. A. Zavitz end Prot Wh will discuss a wide range of practicail publeciti 'i


The Binder Twine Industry







 have been forced to shut down on account of U. S
compettition. The International Harvester Compan
was this season in Was this season in a position to set the pr trade. Whether the proposed encouragemen
dependent factories of Canada will take t bounty or a moderate duty is not stated.
affects the consumer directly, in so far as concerned, but a bounty being drawn from the genera treasury of the country is contributed by
towards the revenues of the country.
that the International Harvester Compan

to their agricultural implement works at Hamilton, Ourt. It was also announced last week that the Plymouth (Mass.) Cordage Co. have decided to establish
a Canadian factory. This company have supplied a large proportion of the imported twine in the past. They are conservative in their methods, and stand in the United States as the one great concern independent of the International Harvester Co. It is said that
they have bonded a site at Welland, Ont., and con Chey have bonded a slte at Welland, Ont., and con
template a factory employing several hundred hends. That these concerns propose establishing themselves faith in the future of the country, and also pives color to the authenticity of the repo

Investigations
at Central Experiment Station.
mong the inveetigations conducted in the Intora ary the past year were the following
Examination of a process patented in Denmark for
the preservation of milk. Dr. Horch, of Copenhagen the preservation of milk. Dr. Horch, of Copenhagen,
was the patentee, and it was claimed that by putting the milk through this process, namely, treating it with hydrogen peroxide, it would keep sweet for an indefinite length of time. Samples of milk treated in this way were received at the Experimental Farm, and althoug the milk was sweet and fresh, it had certain objectionsuccess of the process.
Examination of certain instruments recently invented
for ra
butter
: ascertaining the amount of moisture in
A recent law passed by the British Government fortain per cent. of moisture, therefore it is very important
ther that the exporters should have some means of determining quickly and effciently the amount of moisture i Che goods about to be forwarded. Some of the instruments examined were found to be fairly efficient it ascd properly, while others were totally useless.
An investigatión of supposed changes in the position of the fat in cheese when it is iept in cold storage.-This investigation was undertaken owing to
the fact that it was alleged in England recently that some Camadian cheese was adulterated with forelign fut, and when an analysis showed that such was not the
case, the British merchant who had purchased the cheese Clained that some change must have taken place in the
composition of the checse while they were being bept cond storage. The investigation at the Fearm proved
conclusively that no change whatever took place in the conclusively that no change whatever took place in the
composition of the fat in cheese while being hept in
cold storage. An examination of a process for making butter
recertly exploited in the United States. It was claimed recently exploited in the United States. It was claimed
that by adding certain chemicals to the cream
more butter of better quality could be manufactured more butter of better quality could be iuanufactured
than by the ordinary process of buttermaking. The process proved to be of no use whatever, and, nccord-
ing to Prof. Shutt, was another sample of the faker gamo so much in evidence in the United States. from the laboratory, containing an analysis of the difPerent grades of wheat of the Northwest. with discuis-
sion thereon. As is generally known, the wheat grown
in the Northwis. in the Northwest is graded into different classes, a a-
cording to quality, by a Government official in Winnineg, and is sold according to classification. The prin-

## Get Out Your Camera.

In view of the popularity attending those in previous years, we have decided to have another camera com
hotographs of farm homes, showing house, grounds, trees, etc. $\qquad$ B-Photographs of orchards or, garden C-Photographs of buildings and live stock, or mals are at work D-Photograph
houses, showing arr houses, showing arrangement of furniture, kitchen E-Photographe of cheose factorios or creameries, with surroundings.
F-Rural school and grounds, with group of pupile. In this sectlon we particularly desire photos of schools where grounds and aurround ings are well kept.
The prizes will be, in each section

## First prizo ............................... $\$ 8.00$

hULES FOR COMPETITORS.
All photographs must be mounted, and preferinches in size.
They must be clear and distinct. In making the award consideration will be given to the to the suitability of the plotographs for fllustra tion purposes.
They must
Advocate and Home Magazine," London, Ont. Advocale and Home Magazine, ${ }^{\text {" }}$ London, Ont.,
not later than July 15 th, 1905 . The name of the competitor, with P.O. adgraphs compete, must be marked on the back of each photo, as well as the name and location of the view depicted.
Any competitor
Any competitor may send in more than one photo, and may enter in all six sections, but
may not receive prizes in more than two sectlons nor more than one prize in any one sections, All photographe entered for competition shal become the property of the ". Farmer's AdvoNo photograph from which any engraving has been made is eligible for competition par excellence for monthining of June is the seautiful views of various kinds for which our prizes are offered Every Province in Canada and the adjoining

Automobile Restrictions Applied.
At its June session the Carleton (Ont, County
Council passed a by-law offering a reward af $\$ 10$ to
any person who secures the coll driver of an automobile for conviction of the owner or
"hile while driving on the roads of the County. During the enst couple of summers great trouble has been experi
enced by farmers driving on the public highways, owing to the reckless driving of chauffeurs highoys, owing
from the City of ottawa the country ronds. Soveral accidents have occurred montles, owing to hursis bercoming frightencd by auto-

Moonrise
O. A. C. Gradua
Luther Burbank

Co-operation
Fruit Trade
Frut Mrade ..........
Canada's Opportunity in the Orient. 9
Some Notes from the O. A. C.

## HORSES

Draft Horse Breeding
The Runabout Horse
sтоск.
Bath and West of England Show
Aimitations to Inbreeding
Imitations to Inhreeding .916
.916

917
917
918

No. 2 northern. No. 3 northern, No. 4 extra, No. 4
nd No. 5 . There are some gradeg and No. 5. There are some grades lowor than this.
but they are not used to any extent for milling purbut they are not used to any extent for milling pur-
poses. The claim was advanced by a large number of
farmers in the West that the difference in price letwcen foses. The claim was advanced by a large number of
farmers in the West that the difference in price lettrcen
the different grades was not warranted by the diference

Wants Anticipated

哭 Contents of this Issue.

## yocate and find enclosed renewal to the "Farmur's Ad

 kencrally find the answer whon lifoking quertions, butissue of the next




 Rules for the milkers
matn
916 The Feeding of Chickens.
21 GARDEN AND ORCHARI 921 MARKBTS
 18 Can Be Safery Commended


MARKETS.

## Toronto Horse Market.

 Teasonable dullness has again chara terized the local horse market the pasweek, and as a result of the slackening


 bied dratty geld aing sold during the week Canadiran Horsers Exchange, a carload of exceptionally choice heavy w aged a similar figure. T consigned by O'Neil \& Co.. of London. The express companies have been in the
market again for expressers, up to $\$ 200$ each, with perhaps a trife more for some-
thing extra choice. Otherwise no special thing extra choice. Otherwise no special
interest attached to the week's trade, which is taking on a summer tono.
According to the Canadian Horse Exchange, th
Single dr hand
Single
hors
 Matched pairs, colbs and car
rlage horsees, 15 to 16
rlage horses 1 Delivery horses, 1,1
1,200 pounds
General-purpose and General-
horse
pound

Oraft horses pounds Servicont Serviceabl

Serviceable
Burns \& Burns \& Sheppard report prices as fol
hows
 horses, 15 to 16.1 hands 165 to 200 horses, 15
Delivery hors
1,200 hos.

## THE CROWN BANK OF CANADA

Contol Amhorthed Hoal Office, Toronto, Ont. Edroard Gurney, Prosident
EVERY DESCRIPTION OF BANEING BUSINESS TRANSACTED Speoial attention given to nocounts of Cheoes Frotorile, Droveris and Grain Denlers, and

 SIVIIIGS BANIK DEPARTMENT Depoeltit of Twod on oovto nad upwarde soolved, and in year, withoub presentation of pasaboolk. No dolay th the withdinwal of any portion. or the
G. de C. O'GRADY, General Manager

| patents, $\$ 5.10$ to $\$ 5.20$ for seconds, and $\$ 5$ to $\$ 5.10$ for bakers'. <br> Millfeed-Bran, $\$ 13$; shorts, scarce, |  |
| :---: | :---: |
|  | ood to fine creamery, 189c. |
|  |  |
| Manitoba, $\$ 17$ for bran, and $\$ 19$ for shorts. <br> Barley-45c. for No. 2, 43c. for No. 2 |  |
|  |  |
| Barley-45c. for No. $2,43 \mathrm{c}$. for No. ${ }^{2}$ extra, and 41 c . for No. 1 malting out- side. |  |
| Rye 60 c ., outsid. | : wholesale, 16c. to 16tc. |
|  |  |
| higher; No: 2 yellow, 63c.; No. 3 yellow, 62 c., lake and rail freights. Oats-Firm : holders are asking 45 c . for | $r$ choicest st |
|  |  |
|  |  |
| No. 2, outside, with 43 c . bid. Rolled Oats- $\$ 4.35$ for cars of bags and |  |
|  |  |
| $\$ 4.80$ for barrels. on track. here ; 25 c . more for broken lots here, and 40 c . out side. <br> Peas-70c. to 71 c . for No. 2 , west |  |
|  |  |
|  |  |
| Peas-70c. to 71c., for No. 2, west and east, 75 c . for milling. |  |
|  |  |
| Buckwheat-59c. to 60 c ., east or west. <br> Dressed Hogs-No great amount of business is being done. D"essed hogs are firm and steady at $\$ 8.75$ to $\$ 9.25$ |  |
|  |  |
|  |  |
|  |  |
| ter-The best is commanding good | hidos dull, as usual, prices $\$ 1.50$ to $\$ 2$. |
| prices, even with the over good supply hat dealers have on hand. Prices are | Ta |
|  |  |
| :reamery, prints ...... .........18c. to 20 c . do, solids ... ... ............18c. to 19 c . | St |
| Dairy lb. rolls, good to choice ... ... ..................15c. to 16 c . | market last week. Some fine |
|  | ts in Great Britain and Europe, |
| do, large rolls ... ..... 1 |  |
|  |  |
| do tubs, groddo inferior | s |
|  | same country, theso being |
| Cheese-Prices on job lots, 10 c . lo 10 d c . Eggs-Are selling well, prices continuing at $16 \frac{1}{2} \mathrm{c}$. to 17 c | the first shipments from Canada to that |
|  |  |
|  | the arrival |
| Potatoses-There are not very liberal re-ceipts of old, and a slight scarcity is | local market after a trip of about |
|  | days. These sold at the rather good |
| ceipts notice | price of $4 \frac{4}{} \mathrm{c}$. A few choice cattle here |
| for Ontario, |  |
|  | to 5 je.; good butchers' stock ranged |
| his morning prices were reported down to $\$ 7.75$ to $\$ 8$ for No. 1 timothy. |  |
|  |  |
| MERS' MARKET (Retail Prices). | lering last week was a dunch of $A$ mmer- |
| Wheat, white .............. $\$ 100$ to $\$ 102$do, red |  |
|  |  |
| do, spring |  |
| do, goose ............... is | \% \$2 to \$8, according to |
|  | quality, and spring lambs, $\$ 3$ to 85 |
| Rye .......................... 62 to 65 | ea |
| Barley | rees-Dull: broken-dow |
| Barley Hay, No. 1 l timothy...... 9 9 00 |  |
| clover, mixed..... 7 00 to 8 on | \$75 to 8125 ; |
| Dressed hogs, light, cwt. 925 |  |
|  |  |
| Dressed hogs, light, cwt. 925 do, heavy $\qquad$ 875 | 10 8250 each, |
|  | \$250 to \$800 each ; carria |
|  | to qualit |
| Old chickens, dr | 1,200 1ヶs., \$200 |
| Spring chickens | abo |
|  |  |
| $\begin{aligned} & \text { Fill chickens } \\ & \text { Turkeys ....... } \end{aligned}$ | to 88.5 |
| 1'otatoes. per |  |
|  | Choice primes, ${ }^{\text {8 }}$ |
|  |  |
|  |  |
| Beef, hind quartersdo, fore quarters |  |
|  |  |
| Mutton ................... 8 to 10 |  |
|  | Chicago. |
|  |  |
| Calves, per lb............ 7 to to 9 d | Good to prim |
|  |  |
| Cheese Board Prices. | \$5.25 to 88.50 ; good to choiv. |
| Prices quoted from the cheese boards | \$5.40 to 85.50 ; rough, heavy, |
|  | \$5.25 ; light, \$5.25 to \$5.45 |
|  | sales, \$5.35 to \$5.45. Shee |
| stock, 9 chc., one lot of white going at $93-16 \mathrm{c}$. Kingston, 625 sold at $95-16 \mathrm{c}$. | choice wethers, shorn, \$4.50 to choice, mixed, shorn, \$3 |
| Tweed, 9ac.; Madoc, 9:c.; W:nchester 9-7-1bc. Napanee 9?c. Ottawa 9?c. |  |
|  |  |
|  |  |
|  |  |
| Brantford, 9c., 9tc. 9 -16c, and $19{ }^{\circ}$. Farnham (Que.) hutter, 19dc. :") 19 c . |  |
|  |  |

## Buffalo.

$y, \$ 5.60$ to $\$ 5.65$; mogs-Active \$5.70; Yorkers, $\$ 5.70$; pligs, $\$ 5.70$ to $\$ 3.25$ to $\$ 3.75$; dairies, $\$ 5.40$ to $\$ 5.65$ Sheep and Lambs-Lambs, $\$ 4.50$ to $\$$ heep and Lambs-Lambs, $\$ 4.50$ to
$\$ 6.75 ;$ yearlings, $\$ 5.50$ to $\$ 6.75$;
wethers, $\$ 515$ to wethers, $\$ 5.15$ to $\$ 5.25$; ewos, $\$ 4$.
$\$ 4.25$; sheep, mixed, $\$ 2.50$ to $\$ 4.75$.,$~ . ~$

QUESTIONS AND ANSWLRS.





Miscellaneous.
amage from strbam.
We have running across the corner of
our farm a runway or small him, which our farm a runway or small hill, which
had its natural ending on the farm had the natural eqding on the larm
directly across the road from our farm.
Just beyond the ending of Just beyond the ending of this runway
is a ridge some 10 foet high. Foun over 15 a ridge some 10 feet high.
20 years, the township has the wars, the township has been semuling
the rater, which should have gone arourd
the to its natural outlot, ehroult the ridge and across our place.
runway, where it enters our ranway, is wheere deep, where it lear plapes about 25 feet, giving it great fall. As a consequence, the water is cutting up the hill
in terrfble shape, causing sevpral in terrfole shape, causing several land
slides, and a stream which one could
 15 feet wide, isolating a
acre fild from the farm and spoiling farm generally.

1. Can we collect damages?
2. For how long back can damages ?
3. Do you consider 8500 an unreat 4. What is the best way of fincling the
4. Oan we only get damages for the
land directly destroyed by the water, or
can we get damage as an tol can we get damage as an injury to the
farm generally? Ont.
Ans.-We consider that you are en-
titled to some rellet in the way of titled to some rellet in the way of
damages and otherwise, but we can
that there that there are legal difficultien such as
make it necessary that you should pro-
ceed most discreetly, and we would ceed most discreetly, and we would
recommend hat you place the matter in the hands of a solicitor with instructions to make the necessary application to tho Municipal Council for compensation in ro
spect of damage already done and prorision against future injury. We cannot estimate the amount of actual damage ;
and, in view of the and, in view of the difficulties we have
alluded to, we think you ought not to expect or to press for any great
but should but should instruct your solicitor to
make the best settlement poesible, and
not to resort to litigation unless aboon lutely necessary in order to get the caaso
disposed of on something like reasomable holidays
A man or youth came out fron Eng-
Iand last May, hired to tion being made concerning legal holidays. He hired egain thie March to another person for the year, no mention
leing made at the time concerning halldays or Sundays off. Another came out in May this year, hired to same person until March, the same conditions enisiting 1. Can these $t$
days and every other Sunday of ? 2. What are the legalized holidays Four there are, can in
working holidays ?
Ont. AN OLD COUNTRYMAN. Ans. -1 . Yes, but subject to the doing
of such chores as must of necossity be
attended 2. The statutory public holidays are Sundays, New Year's Day, Good Friday
Easter Monday, Victoria Day, Dominion Jay, Labor Day, the day fixed by proclamation for the clebration of the birthday of the King, Christmas Day. and any
day appointed by proclamition day a apointed by proclamation for, a
general fast or thankgiving.
5. No, unless there be an agroement

In answering the advertisement on this page, kindly mention the FARMER'S ADVOCATE.


Life, Literature and Education. Charles"Dickens."I


Thirty-five (ivnaphical sketch.) month there died in England the novelist,
who, perhaps, more than any other Who, perhaps, more than any other
English writer, has endeared himself to all classes of people, both in his day and ours. In Loondon the anniversary is being made the
occasion of a great demonstration occasion of a great demonstration
in his honor ; in Canada, it is but
fitting that we, too, should pay his fitting that we,
Charles Dickens was born Feb. Thh, 1812, in Landport, Eng., where
his father was a clerk on a small salary in the navy pay-officce. "Whith less" habits, the elder Dickens found the problem of making both ends
meet too much for him. His little meet too much for him. His little
children were reared in poverty, and children were reared in poverty, and
he was finally imprisoned at the Marshalsea for debt. In passing, it
may be said that he still lives in may le said that he still lives in
the immortal Micawber, who will go down the ages "waiting," like many another of his clan, "for
momething to turn up." The mother something to turn up." The mother
of the family seems to have been of the family seems to have been conseguence the education of the
children was sadly neglected. Durchildren was sadly neglected. Dur-
ing his early years, however, Charlee made up for this by an insatiable of eight years, his genius was already showing itself by his devotion
to Fielding, Smollett, Lesage and Cervantes, writers who have been wont to tax much more mature intellecte. At a later day he added
to these favorites Shakespeare dison, Steele, Ben Johnson, Carlyle,
Scott and Goldsmith. The Bible was at all times his otay.
Heving at last been liberated from Having at last been liberated from
the Marshalsea, his father went to London, where he obtained the position of reporter for the London
Chronicle, and here in this big city were spent the saddest days of the the richest in the material whose elaboration was afterwards to make
him famous. For a time he worked him famous. For a time he worked
at odd jobs along the Thames, and even was apprentice in a blacking establishment, mingling with many
of the people who afterwards were


as many educational institutions, One of which, doubtless, afforded the
basis of QSqueer's Academy," in
"Nicholas Nickleby." For a short time afterwards he was clerk in an attorney's office, where he became
conversant with the legal facts and characters which appear in his writ-
ings. But, for the most part, such ngs. But, for the most part, such
education as he attained was due to his own efforts. Among other things,
he taught himself shorthand, an ache taught himself shorthand, an ac-
quisition which stood him in good quisition which stood him in good life, unwittingly as it was, seemed to have a direct bearing on the work
of his after life. By reason of his given the position of reporter for the True Sun, in the gallery of the led ta his appoinine Chronicle. In this capacity he was sent here and there all over Eng-stage-coaches, lodge in inns, and stage-coaches, lodge in inns, an
mingle with the great mass
"crominoun" people, in whose de scription he is at his best, and
whose overy trait and peculiarity he perceived with hawk-like keenness and registered in his memory with an
unfailing tenacity. From reporting ho soon turned to original work, first in a series of newspaper articles which appeared as Sketches irom Boz." In 1836
appeared the "Pickwick Papers," appeared the Pickwick Papers,
whose success was so marked that the struggling young journalist of twenty-four found himself immediate-
ly oue of the most popular writers ly one of the most popular writers
in England. From this time his pecuniary troubles were at an end. In fast succession came ". Oliver
Tw ist.", " Master Humphrey's Clock,""." Nicholaster Nickleby "," "Mold "old
Curiosity Shop," and "Barnaby Rudge," all of which were widely read and lucrative. In 1841 he
sailed for America, and, on his re
turn, publegren turn, published those works, dis
pleasing enough to pleasing enough to the American peopie, which marked him as a
satirist of the first order-" American Notes," and "Martin ChuzZlewit." In 1843 appeared "The "Cricket on the Hearth". Chimes," Haunted House." The next year he went to Italy, and finally settled
for a time at Lausanne. Here for a time at Lausanne. Here were "Dombey and Son." ${ }^{\text {D }}$ Following
these came "David Copperfield. these came " David Copperfield,",
"Bleak House," "Hard Times ",
(his poorest work) " rit." About 1850 he cittiablished the magazine, "Household Words," which still exists as the official or-- Dickens Fellowship."
Besides Besides accompllishing this enor-
mous amount of writin mous amount of writing, he was
for several years connected with theatrical companies, acting as stage casion, even as actior. In 1850 , " reading " togan the fatal series of
an which netted him an additional fortume, but finally him
sulted in undermining his health. the same year he bought his famo
old place, "Gadlshill." where tunate domestic complications im-
mediately led to his separation from
his wife. Once more he plunerad


Mutual Friend," appeared in quick succession. In 1868 he again came returned to England broken down in health, and began his "Mystery of
Edwin Drood," which was Edwin Drood, which was never
finished. On the 8th or June, 1870 , after working at his book all day,
he was suddenly stricken with parhe was suddenly stricken with par-
alysis, and died the following morning. On the 14 th of June he was the ceremony which Great Britain have proven themselves the worth-

## The Literary Genius of Dickens

## A just criticism of the work of Charies Dickens would require noth- <br> Charies lickens would require noth- ing short of a volume ; nay, to it

 has been given the space of manyvolumes. Yet, upon to Volunes. Yet, upon this anniver-
sary of the great author's death, a
few words. in passing riny few words, in passing, may not be
amiss. It has often been a matter
of wonder has of wonder as to why his books have taken such a hold upon the public-
for they are still, and promise to be indefinitely, among the most popular on the sales' counters. Faultless
they are not. Occasionally their harr are not. Occasionally their most wearisome; alnost invariably they show lack of system and bal-
ance in construction; in some por-
tions inere tions there is ample evidence of
hurried work, in others a straining
for theatrical for theatrical effect, due, probably, to the author's passion for the
stage. Here and there, even may detect a positive lack of skill in inventing a natural sequence of
events to bring about a desired situation. His style, though in gener-
al masterly, and in places ascending to the very highest type of literary art, is not uniformly up to the rec-
ognized standard of excellence he is, perhaps more than any Yet reading public, beloved his the great been translated into and works have written or read The greatest sccret of his popular-
ity, probably, lies in his unbounded sympathy, and that keen insight in-
to the motives and theughts of ment which-since human thature does not
change, though its outward manifes change, though its outward manifes--
tations may-has rendered Dickens
like Shate like Shakespeare, "of no age,", be-
cause belonging to all. Add to thi his inimitable humor, his pathos. and the fact that he excels most most 0 , all in depicting the great middle
class-the class to which jority of people lellone-and it does
not appear wouderful trat he should not appear wonderfil that he should
be popular. We like to langh, we
like-so far as like-so far as our reading is one
cerned-to cry, we like to encounter ourselves and thost whom we meet,
On paper. In all this, and more,
Dickens eratifioc Dickens gratifies us.
the human heart. Hud more,
He interprets humanity to itseli. The world un-
derstands him. It has been claimely that Dickens
characters are, as a rule carica-
tures. But, os has moun wherved this ohjection has has been chiefly
launcred by these whe never, linew
the classes of which had the ."lasses of which hin has writ-
tenl." Possiblyy, also, it has been
hazarded by those whose vision is

In a little book called " Friendship examining the work of an artis iriend who always painted his shad ing scemed unnatural and colo ng seemed unnatural, and he ob
jected. His friend simply told him of "o use his eyes." He did so, and after a short time, was astonished him blue, a thousand times more beauliful than the brown ombres he had imagined them to be, simply be
cause he had not seen ariyht cibse he had not seen aright. Pos
among many of Dickens critics, among little closer observation o real hife might bring about a modi-
fication of this criticism as to his "exaggeration." Criticism as to his hat, the more of Dickens we it is "creations" on the meet his very business, in our homes. True, he is charces the "eccentricities" constant repetition but reason of tion serves its purpose in repet instinctiveness to each individual treats, and without of which ho would lose immeasurably his work contain matchless examples of the for highest literary art. What to portray Sairey excel the ability way as to disclose to our minds the was in reality and creature that she see her live in the story, without reeling of nausea? Again and again Dickens' books, unlike those Howell's and others of a highlya purpose. He was a champion the poor and downtrodden, and cause. He wrote soul into their nor for fame, although both of these his very and who can say that should do well-spring of his marvellous success? with writing, he laughed and cried than once erew posilively and more their troubles. Could the exprea sion of such feeling be other than powfact remaine and that may be, the far as literary foresight can proph esy, that he ranks among thee most beloved of those who have con-
tributed to the world's literature.

The Death of Little Paul.
Litule Dombey closed his eyes with hese words and fell asleep. When Then he awoke was clear and warm. - and sat upright in his bed. $\begin{aligned} & \text { He }\end{aligned}$ saw them now about him. There was no gray mist before them, as
there had been sometimes in the nivh t. He knew them every the and called them by their names. nurse?", who is this ? Is this my old Eurding, with a radiant smile, a a
figure coming in Yes. Yes. No other stranger
would have shed those tears at sight of him, and called him her own poor her pretty boy, her , ther Woman would have stooped down hy his hed and taven stooped
right to fondle it. No other woman would but him and Floy, and been so full of tenderness and pity. I am glad to see it again. Don't (iood-bye!"' Giood-bye, my child !" cried Mrs. Pipchin, hu " $\Delta$ Ah, yes! Good-bye! Where is papa? father's breath was on his
His faere the words had parted
cheek before the froem his lips. The feeble hand from in the air, as if it cried
waved in
Good-jye t" again. "Good-iye agan.
Now lay me down; and, Floy,
come close to me and let me see you."
Sister and broiner wound their arms around cach streaming in, and tell upon them, iocked together. "How fast the water runs between
its green banks and the rushes, its green banks and the rushes,
Floy! But it's very ncar the sea
now. I hear the waves! They always said so!"'
yresently he told her that the motion of the boat upon the stream was lulling him to rest. Now the there was a shore before him. Who "Manma is like you, Floy. know ler ldy the face! the wall came
The golden ripple on the in the room. The old, old fashion ! The fashion that came in with our frrst garments, and will last un-
changed until our race has run its course, and the wide firmament is
rolted up like a scroll. The old, old fashion-Death ! O, thank God, alder fashion yet, of Immortality ! And look upon us, Angels of young children, with regards not quite estranged, when the swift river
bears us to the ocean!-[Charles
竍

Up from Slavery
The story of how the little colored
boy, Booker T. Washington, conquered every obstacle whic his never
confronted him in his wavering determination to obtain an education, reads like a romance. While at work in a coal mine he
overheard two miners speak of a great school for colored people
somewhere in Virginia. It was called the Hampton Normal and Agricul tural Institute, at which poor but
worthy students could work out al or part of the cost of their board,
and at the same time be taught some trade or industry. He resolved
at once to go to that school, although he had no idea where it was, how many miles away, or how he
was going to reach it. He was
tired by he one tired by the one ambition-to get to
Hampton. The thought was with him day and night and never left
him, till after long service, patient waiting, and the learning, mean
while, of many other practical les sons, he presented himself at its
gates, which were to him as the gates of Paradise. The story of that in
tervening time is well worth the reading. A year and a half of it
was spent sion of a mistress whose teaching warded his fidelity to his trust by Purthering his great work later on
"'Even to this day," writes the
founder of "Tugke never see bits of paper scattered
around a house or street that II do not want to pick them up, a filthy yard that I do not want to clean it
a paling off a fence that $T$ do not
want to put it on, an unpainted or unuhitewashed house that I do no Want to paint or whitewash it, a
button off a coat that I do
not want to put it on, or grease-spot on the floor that
1 do not want to take it
away." And so was learnt the les "tway." And so was learnt the les ing of nany others since-that every-
thing must be done systematically and promptly: nothing must be
either slipshod or slovenly, whilst
at the bottom of all must be found HOW HE GOT TO HAMPTON Tramping part of the way getting occasional rides in trains, (Ways or cars, as his very small resources al-
lowed, and once having ta walk the whole night through, outside a hotel which would not admit him
on account of his color, Booker a on account of his color, Booker a
last reaches Hichmond, Virginia,
8 last reaches Richmond, Virginia, 82
miles from Hampton. He had never beeu in any larse chy, ...eew no one,
and was without a copper left in that the sight of the food stands, " with fried chicken and apple pies,"
was almost unendurable. He walkod the streets till after midnight
"tired, hungry, and everything but discouraged," and then, finding spot where, the sldewalk being ele
vated, was a nook into which ho cated, was a nook into which h
could creep, the weary traveller, the extreme of physical exhaustion snatched some hours of slumber, undiscovered and undisturbed by the
tramp of feet overhead. For many nights the undaunted boy, having ob tained work in the unloading of ship, slept under the sidewalk, unti he had earned enough to carry him
to the promised land. Having been so long without proper food, a bath or change of clothing, no wonder
that there were doubts in the nind of the teacher to whom he presented himself, as to his admission ; but at last she gave him his chance. " The recitation room needs sweeping,
lake the broom and sweep it., "Never," tells Booker, "did I re ceive an order with more delight.
knew that I could sweep, for Mrs. Rew that 1 could sweep, for Mr swept that room three times. Then dusted it four times all the woodWork, every bench, talle and desk cleaned every plece of furniture, and had the feeling that, in a large measure, my future depended upon he impression I made upon the She was a 'Yankee' woman, and knew just where to look for dirt, and her reply was, 'I guess you
will do to enter this institution, and that made me the happiest creacure on earth, for it paved the way Wor me to get through Hampton. his studies as best he could, he mounted step by step upwards. Everything was new to him at frazzle to him. The first night he slept under both sheets; the loxt uight on the top of both of them, he learnt that he was to sandwich his body between them. Greater problems were unravelled by hie
growing powers of observation, and difficulties unsurmountable, as they would have appeared to most people white or black, melted away before hess of purpose. From a pupil he became a teacher, suremely happy to use any opportunity which offered to help others as he had been helped
himself, with or without fee or re ward, until finally, in $1881{ }^{\text {an }}$ there came to him an invitation to his life-work in the form of a telegram,
dated Tuskegee, Alabama, from the promoters of a proposed Normal ington will suit us. Send him a

## Appreciation of the "Quiet

 The foll hour. Dear Hope-of the Quiet Hour,- - You do Qot know how much your words in theQuiet Hour to-day on ." Rest in the Quiet Hour to-day on "Rest in the
Lord "have cheered my heart. Have yust been reading it in the quiet of this peaceful beautiful evening. It has been
a day full of trouble and heart pain 20 ne, and those beautiful words of Rest message, and thave turned my thoughts away from home cares and worries to the beautiful world above, and my heart
finds Rest. Thanking you so much for those as well as other cheoring words, for I always love the Quiet Rour,
I am always a
WEIL WISHER


Puzzle Competition.
I will give you a few problems th1s
week, but don't send in your answers week, but don't send in your answers
just yet. You shall have full directions A farmer had ${ }_{\mathrm{t} \text { wo }}^{\mathrm{I}}$. sons. He gave
 II. An acrostic. Hard water.
Hroper.

## A numera

My initials when read downwards and my finals read downwards give the name
of one of the apostles.
III. A charade.
My First is a short and familiar name You give to an islander well-known to
And if you reverse it you mention the
Where sometimes that islander's found in
I'm sorry to say that all I have left
caused by my First when or reason
bereft ;
In fact, I am told that when out of em-
ployment
He looks or it quite as natural en-
name
That all of countrymen justly could claim. IV. A riddle.
When has a man four hands

1. What was the bridegroom's ne

2. At what hour was the wedding?
3. Who was one dark-eyed bridesmat
4. Who was one dark-eyed bridesmai
5. One precise maiden guest?
6. What sealed the marriage contract 8
head?
7. What did she wear on her feet?
8. What kind of glove did she wea
9. What style of collar?
10. What was the color of her eyes?
11. What was the color of her eyes
12. What fop was at the wedding ?
13. What bashful guest ?
14. What waved over the house ?
15. What homely gifts did two country
cousins give the bride?
16. What did the bridgroom wear
his coat?
17. What did the bride say to her
friends when she went away?
18. What star shone on the newly-
married pair? 20. How long will their love endure? Ham a word of 14 letters. Tom and $\begin{array}{cccccc}\text { companions } & 6, & 8 \text { school, } & \text { were } & 11,10,\end{array}$ 14 day talking together of the glorious 14, $1,5,9,11,10,4$ of men, both on 4,
14, 6 and land.
./ For my part," sald
 14 more than many others." you admire 10, 14, 13, 4, 2, 8 as

## Sowing and Mowing.

## Be careful what you sow, my boy, For seed that's sown will grow,

 And what you scatter day by dayWill bring you ioy or woe
For sowing and growing,
Then reaping and mowing
Are the surest things that are known
And sighing and crying,
And sorrow undying,
Will never change seed that is sown.

## Be watchful of your words, my boy.

For words can cut, and deeds bring
And wounds are stubborn facts.
Whether sleeping or weeping.
Or weary watch keeping,
The seed that is sown still will grow
The rose brings new roses
The thorn tree discloses
The thorn tree discloses
Be careful of your friends, my boy,
Nor walk and mate with vice ;
Nor walk and mate with vice ; ..

Then fly when sins entice
The seed one is tine will be growing, nd each one must gather his own
In joy or in sorrow,
To-day or to-morrow, Il reap what your right hand has

## A Small Hero.

We did not know he was a hero, but read this litule story you will agree with He was a square-shouldered little boy who ivive our street. His mothe was quite troubled because he had such
mannish ways belore he was fairly out of
bablyhood. babyhhood. But he was n" noblody's baby." He had a pair of blue overalls
such as nice boys on our atreet wore when they played in the dirt, and when those were on he had a funny way of talking
long steps and standing with his foot far long steps and standing with his hot far
apart, as if he wert about as tall as his father. a dozen other Tom Thumbe, who also wore overalls and took long ateps,
chose Charlie lor their leader. Tnetend of calling themi Kenneth, and willes, and Joe, our Charlie used their last numes-while they called him Macarthur, oriostin better, "Mac." He was happy when ho These be "- Mac all day These dear little pygmies had a big
football which some older brother had worn out, and they "" blow ft up," and patiently mended it day after doyl and
kicked it so vigorously that usualy the kicker fell backward into the dust, but Chat was taken as part of the gamee.
Charlie's mother used to say : "Charlie is a born leader. Oh, if I could only
know he would be a good one !" I can tell you, boys, between ourselves, that
ever so many mothers are thinking of that very thing. Into our street and began to play with
Charlie and his "regiment "Charlie and his "regiment "-lor that th
what he called the boys who followed hi lead. I do not know what sort parents or home this bad boy had, but somewhere he had taken lessons in ovil
and before he had been with them a hali hour, he hean to teaking the nam of the "yreit. Ood in vain. Charlie
ofopped playing and drew a long breath. "Yes, and I'll do it again," replied the boy from outside, as he did.
"Robinson!" cried Charlie, to oldest follower. Charlie's side, while the rest of the to id the little captain standing very "straight and pointing to boys that and we don't pley wit boys that swear, on this street." they
"No. we dont n ; no, no

What'll we do with Sullivan?" You can't do anything. I'll atay kicking dust toward them.
. Not if you swear when the Command ments say not to," answered Charlie. the other ". And we don't want you if you've got "'I don't care; men say 'em on the street,'" said the defiant Sullivan. " But this $\begin{gathered}\text { regiment don't and you } \\ \text { can't play with us 'less you promise }\end{gathered}$ never to again."
The boy tow but as he looked at a stone six determine little figures ho dropped it and turned ." Tell your mother to wash out you ." And don't you come again till-you over it," added the captain, as if the dreadful hatit were a dissase. "
They waited until "sulivan " turned a
and
play. Charlie's mother, who sat beande
But
an open window, could not see to
an open window, could not see to set
another stitch until she had wiped the tears from her eyes. But they were not
" sorry" tears. MRS. O . W. scome,

## Unawares.

(Sent in by F. R., Sydenham; O
They said-" The Master is coming To homor the towe to-day. And no one can tell at what house mon
The Mastor will choose to stay
Then I thought while my heart beat wildly-
What he stould come to mine How would I strive to entertal And straight 1 turned to tolling,
To make my home more neatI swept, and polished, and garnishod I was troubled, for fear the Master Might come ere my task was done And I hastened and worked the fast And wotched the hurrying sun

A righana came to my door She had pome to tell me her sorrow, And my comfort and aid to implore
Or help you any to-day. have ghoeater thinge to atten

But soon there came anotherAnd cripple, thin, pale and grey, A while in your home, I pray ; I have travelled far, since morning, My heart is full of misery, seek And 1 ata-- I am grieved and st look for a great and a nobler And the crtpple turned away. And my task was nearly done, And a prayer was ever in my heart,
a That the Master to me might come
and I thought I would spring to me nd trent nim with utmost ca When a little child stood by Sweet, but with marks of teardro And his clothes were tattercd a Anger was bruised and bleeding nd I said-" I am sorry for you You are sorely in need of care
But I cannot stop to give it But I cannot stop to give ih,
You must hasten otherwher And at the words, a shadow Swept over his blue-veined brow,
Someone will feed and cluthe Someone
dear,
But I I ame too busy now."
At last the day was ended,
And my toll was over and dune. And I watched in the dusi Watched, but no footfall so
No one paused at my gat No one paused at my gate
No one entered my cottage
I could only pray, and wai
waited 'till night had deep-ned He has entered some other din cried,
And gladdened some other hou
My labor had been
My hoart was sore with
Yet, spite of all- - shep
ben the Master stood bufore
And His face was grave and
Three times to-day 1 anm
door,
And creved your pity and, Unhelped and uncomforted
And the blessing
lost
And
And your chance to serve has
" Oh! Lord, dear Lord, forgi
How could I know 'twas Th
How could 1 know 'twas
My soul was shamed and
In the depths of humility
And He sald-" The sin is
And He said-
But the blessing is lost to the
For failing to comfort the least
Yew have failed to comfort Me


A Royal Guest.



The Light of the World.
$B_{j}{ }^{j}$ Holman Hunt
the tomb, who saw the Master she loved standing beside.
it was Jesus."
Am old wood-cut represents Christ as the Bridegroom appearing to the Bride-
the Soul. He is holding the Soul. He is holding a mask before
His face, and the Bride shrinks back in His face, and the Bride shrinks back in
fear because she does not recounize her Lord. Instead of welcoming Him she is
trying lrying to escape, for the beauty of the
loving face behind the frowning hidden from her sight. Irowning mask is
It not ofton so? Christ appears to us somotimes in all His wonderful beauty, and our souls are enthralled by that glorious Vision.
But sometimes He comes in a strang. But sometimes He comes in a strange
and terrible disguise. Pain,
sorrow, poverty, death force their way into our homes, and, instead of meeting them bravely and looking for the love which
is surely hidden behind the mask, we try $\tau_{0}$ escape. Some valuable gifts they are sure to leave behind-unless we nght bitterly against God's will in sendimg such
stern messengers-but we can only find joy me in tribulation if we are clearsighted enough to recognize the Pridegroom through His strange disguise. 1f
we do know Him surely we can $m$ surely we can be strong
and brave enough to
hold $\begin{gathered}\text { out } \\ \text { welcoming } \\ \text { hands ; even though, like }\end{gathered}$ hold out welcoming
hands; even though, like
many Physician and surgeon,
He should offer bitter cup of healing medicine, or cut us to the quick.
Instead of shrinking nway from His touch,
let us try to press ncarer, even though we car
only grow like Hion through gewllowhip with lin
His sultoring His sulferings.
$\qquad$
$\qquad$
$\qquad$
$\qquad$


And a cross He bids
thes bewr,
But once on $1 l i m$ wa
$\qquad$

personal troubles." "hich
furce themselves on the
thention ther

day routine work of line would become Then everything would be "worth while,
and we should never chafe at the parent dreary monotony of duty. The common task which has to be done
every day would then be always new and every day would then be always new an
beautiful. Then we could never fret
the the little interruptions and disappoin ments which come straight from His hand: we could never grow impatient
with other people, because we should se Him in them, and should know that to
be cross or unlind to them would be be cross or unkind to them would bo to rebel against Him. If we really felt His invisible prosence in the room harsh o
ill-aatured words to or about anyon could never bo uttered, we should neve think of indulging in rude or unseemly behavior before our Royal Quest, and-
most important of all-we should kee careful guard over our thoughts, know ing that they are naked and open to His sight.
Living
Lire and consciously try to whom we ad to result th our becoming steadily more and more like them, and the only way o Christ is to gaze on Him day alter day and to reflect, as a mirror, the shining
brightness of His character brightness of His character, That is the
best kind of preaching, body is attracted by beauty; and those who continually look at the King in His beauty grow surely-though, perhaps, al-
most impercentibly ness, and so attract others nearer of holi Great Source of soul-beauty. Shall tell you of a beautiful life that is being quietly lived in Toronto? A noble royally that she goes out washing by the day. This she does, not to earn money for her own necessities, but that her country house 16 poor girls for sev eral weeks each summer. This is not second-hand illustration, but an actual
fact that I know of myself for a friend of mine, who declures that $\begin{array}{llll}\text { her presence in the house is }{ }^{2} \text { a } \\ \text { benediction." } & \text { real } \\ \text { Of course it is ! } & \text { One }\end{array}$ who sacrifices herself in order to entertain the King so loyally is sure to carry
His presence with her everywhere she goes. People cannot fail to take hnuwl-
edge of her that she has been with Jesus. chen the light of the world lizhts a
candle, and it burns with such a bril-
liant flame as that, it certainly cannot be hid. A life lived always with the
Greatest must be great, no matter what common work may spoil the whitin
ness of the hands.
What an homor it would What an honor it would have been to
hand our Lord His tools, or to work hander His direction in the carpenter whop
und of Nazareth! Well, may, not every man,
woman and child work with and under Him on the farm, in the shop, kitcherl
or school? And when Christ dwells in a human soul the fraeprance shed hy llis
presence, who is the Rose of Sharon and
the Lily of the Valley, whose very Namu is an oin of the Valley, whose very Name
in Whole house with sweetness. As some
aromatic earth says in an Eastern fable:
"I was common clay till roses were planted in me," Perfumes are not ounly
pleasant to the senses, many of therli
 in London and Paris, noone of the peopl.
employed in the perflume mannfantori. were attucked by the dissases And he
also states that the essences of some
flowers-such as lavender. mint etc. in contact with oxygen in sunlight.
"Mert a uryy purifying and health ingpir-
ing influence on the air The moral nt thospherec. Sconsciously parify
the cann ㄱil
breathe in their presence, and they breathe in their presence, and they touch
with healing power diseased souls, wahIng fresh aspirations atter holinnss,
As some rare perfume in a vase of cluy As some rare perfume in a vase of clay
Pervades it with a fragrance not its
own.
$\qquad$
$\qquad$

Camera Competition

## THE COST

Of a flour is always an important item to a careful housekeeper, but the results obtained with it should be more so. Pound for pound, Five Roses Flour will make more bread, and better bread, than ordinary brands. Consequently it is more economical, and all housekeepers should use it.

ASK YOUR GROCER FOR IT

LAKE OF THE WOODS MILLING CO., Lid


Your Potatoes Last Year?
The Spramotor
 ticrues ibe triad onu onibill





SpraMOTOR CO .

The
World's Champion

LORETTA D






a he U.S. SEPARATOR bolds the WORLD'S RECORD for cleanest skimming VERMONT FARM MACHINE CO., Bellows Falls, Vt.



Special Notice to Our Readers.
When writing any advertiser in this issue
kindly state plainly that you saw Ad. in the
FARMER'S ADVOCATE AND HOME MAGAZINE


The Play Impulse. Summer ts here with its charm-and
its work. Yes, the work is not lacking; what with the gardening on land, and
the having, berry-picking and harvesting Che having, berrr-pipicking and harvesting
looming up tho heer future, it herrly
seems as though there will bo broatring seems as though there will be proathing
time until the long days have pone and time until the long days have gone and
the nights begin to lengthen into the dull November. But it there is work, there is also compensation, if we but talke time
to recognize it. Have you ever thought to reoggize it. Have you ever thoumit
of this while driving along on a bright June morning? Perhaps your way ever
and anon takes you past a wooda with and anon takes you past a woods with
itd deop, cools shaows. and the sun strik-
ing the teaves above into green-
 clumps of ferns and aill that tonder groen
things of the wood standing un

 to the bhiod in what cleaniiness of the
atmosphere, in which not even a dust-
 every where-poewees, warblers, thruahee,
they are all at it; the bobolinkt too they are all at ite the bobolink, too
pouring forth his heart in the meadow yonder. Perhaps, if you are very tor tunate and live in the right district, yo may chance to hear in. "I love doar
whitethroated sparrow. Conada, Canad, Canade, reveretarated
over and over from the, depthe of the over and over from the, depths of the
swamp, though you are not likely to the little songster, for he is very shy. Ho wears the plainest of brown coats, but he has ${ }^{\text {a }}$,
tervals.
But what rambling on is this ! What really set out to say was that, it we are wise, we wil crowd as much pleasure as
possible into our short glorious summer Of course, there is work to be done and money to be made, but there are also rich memories to be stored away, and
humdrum levels of lite to be brightened. humarum levels of tile to be brightened.
One shoutd
not
neglect onest
 one's nature, one of which is the "play
impulse," which has been implanted in
.
 good, wholesome, whol-heartod, normal
people,
is likely to to last right on into poople, is is likely to last rixht on into
old age. Human nature when uninter-
Cored fered with, calls for pleasure just as it it
dioos or any other necossary side-lme of
life lite, and in we have on ouch craving in
us we may be sure that we have per. us we may be sure that we have per-
mitted it bo beome stified by ovework,
or avarice, or carelessiness. Foosibly wo or avarice, or carelessness. Possibly we,
have ". got out of the way of gotng out,", and jmagine it is more bother than it is
worth; but probabty if we just take the trouble of "ixing up "a a httle and going across the neas to neighbors, or to a
pienic maybe, or for
 brightness and energy with which we
bhall return to our other dutiea. At all
ble shail retern to our other duties. At all
events, it may be wise tor us to observe that
fossilized. Above all, do the young need whole-
 Labe can stratch out his tiny arms, he he
begins to .. play with "." things, and this
 if nllowed its natural course, is likely to
continue for the next twenty or twentyfive years, throung twe stager of of tag-
and basebill, ond football, and all the rest of it. Nor is the time on opent
wasted. By this play," muacles. wasted.
hardened,
By this "p play," muscles are
shoulders
strailghtened,

 ner has in his "Simple Life," that
morality itsell depends upon this gratifi-
cation of simple ploaure eation or simple pleasures. Among sad
sights is that of young boys and pirls sights is that of young boys and girls
worked Sinto old mend women terore
their time, slaving away trome morning till nithe, than drowaing irom morning
wearied to to care for topering young too toung wearied to care for beinl young. Young
people
should
certainly
be taught to
or the discipline, but they should also be siven a little time for pleasure. Football and such strenuous games, perthaps,
they will neither require nor care for, but be sure the odid hall day given to a ishing exeuralon or plenic party will not or wasted. It will be abundantly paid nd sturdy mpemorition of tha home ho have not forgotten what it means to bo young.
In the towns, the play impule fin be-own-folk who do not lay out minume Cor gotines some of the poet of the numb mer; whother it bo toonting or sorle or he riding club, or the delijghte of tootthe ilandis of lone and befutiful outioge. To the country, no leof th Che dity Yolk, do the groen woodb
 the invitation, and, in thir
whether tive maling long tripo or wit ones about home, whether in pleasi imply gakining ilme with drink indin the or tilee of lane and wood and hullemide, and animale which Alit among the groenery. will make some attempt at loeat to ac-
 Farmer's Advocate "i of ofee London

## Cooking a Humbend.

 Doar Dame Durden,- - . have orteen for a chat, but have been fuet noliabh enough to enjoy the chate of other without trying to help along. 1 looks the contrifbutions. In one of the liouee In noticad that "May Viow"" has aiked about the house on Sundias timetend ol taking thair wives to church. I haverecipe that perlape ingtict perve. rocighe that it.
might
rry
"In geleoting your husband, you ahould
 tint, be if you wanted or by then gooldem Don'tect him youraelt, an tastee difhor. are always brought to your door. Wheni Lought, tit himm in the baucopan with callod Duty is apt to be weak. Hua bands sometimen fy out of the mavecepai
 you have to cook them allive. Make Clear, strong. stedy oro oul Sot him as noar this as noeme to agreo
 this until they arè quitto dono. Add a
ititlo sugar in the form of Kin . vinegar or pepper. 4 A littlo iplice improves husbands, but it muet be seed with Judgment. Donle stick any sharp
instrument into him to gee if he lim ho coning tender. Stir alim gently, watch-
 to the saucepan and so become tanteless done. If thus treated, you will imd dm very drgeotible, agreeing nicely wth you Prince Edward Mountain view.
$\qquad$ asked a gentleman passenger to a young "lady. He went to see-".
 goes to see," he interjected.
$\cdots$ Well, 1,
1
 he laughed and she salled amay. IDVOCATA


SUPERFLUOUS HAIR






WE OOM Hot ting. GRAHAM DERMATOLOGICAL IISSTITUTE Portrail of the Late Bishop Baldwín

 The Londen Printing \& Ltthograping Co., LABRENTS PUBD. ONTAMIO. WARREN'S RUBBER COMPLEXION BRUSH

 LIKE EVE: Y YMAN Manaer southoort sult 0


Narcissi Withering Off
Dear Flora. Fernleat,-Your articles in
the "Farmer's Advocate" have been, so heipfful that I Iam turning
folve some of my diffulties. Would you poleaso tellt us. in your de.
partment of the "Farmer's Advocate", partment of the Marmer's Advecate
(1) why so many Narcissi buds fora and
then do not mature, but wither before



 separato elappe betwee $\begin{aligned} & \text { ingting and ree } \\ & \text { planting, and how should they be kept }\end{aligned}$ planting and how
during that tume
The bulbs whit The bulbs which I
Hyacinthe,
Narcolsens,
have are
Daffodis,
Grap cuses, Lily-ol-the Valley and Tulit,
know that though they receive the know that though they receive the same
trreatment, it varies; but I do not know
whe to what extent. $\begin{aligned} & \text { Ar have also some } \\ & \text { Parrot Tulip bulls. } \\ & \text { cate they more } \\ & \text { cate than the more comimon varieties }\end{aligned}$
 nouce they do not multiply nearly so give it no water whatever somewhere, and Norval, Ont.
Ans.- This tendency to wither of has
been a sourci of disappointment to many

 season when there was but little sun
sine. We have allo known them to at
provokingly in gardens under the best o provokingly in gardens under the best of
care, while at the same time in a grave

 were waving in the wind with all the
lustiness in the word. Possiby the ex-
planation of the difference lay in the fact planation of the difference lay in the fact
that the Narcissus, like many other bulb-
ous thante . that the Narcissus, like many other bulb-
ous plants. resents too much interterence.
we cant ous plants. resents too much interterence.
We cannot tell ouo positluely what will
prevent the blight, but the following method of culture may rid you of the
trouble : Plant the buyb in september tid
 where it will not be necessary to dis-
turb them until the bubs become
crowde onee perhap, in every for or
more years. If
mecessary
 quite mucky; otherwise manure tho be
never touch the bulbs, nor should

 done they will cease to bloom When
dhe surface of the ground becouss rozen
on the approach of winter, cover the
 as early us possible in spring. Narcissid
should never be planted in ${ }^{\text {a }}$ hot, ex-
poosd ituation nor in one in which the
drainage is not, good. If there are not

$\qquad$
 young plants for your winter window An occasional sprinkling of ashes about
the roots of sweet Peas will help phem The roots of sweet Peas will halp hem.
Remember that S weet Renember that Sweet Peas, Dahlias,
Recllot Poker Plant and Lilies, in in par-
thent ticular, require plenty of water. Sole
them right down to the roots whenever the soil bocomes dry
Give annuals plenty of shallow cultiva lion with a hoo, taking care, of course,
not to cut their roots. They will repay you for your trouble. They will repay
shrubs, according to a good authority, Shirubs accoradin to a good authority,
should be pruned soon atter the fowers are off. Remove ooly the sprouts which
have flowered and any decaped wood or straggling shoots. This will induce a good growt of new wood during the
summer, and prepare a copious supply of blossoms next year.
This is the time ter resting plants in-
tetide tor winter booming. Thun the
Calla over on ets side somewhere and
 occasionally to keep them from dying
Outright. Don't be alarmed if the leaves drop onf that the what thed if the leaves
when plants are resting they should do

## The Light of the World.

$\qquad$
who come to criticlze the chaterers,"The Light of the World" rainks as
one of the reatest religious pictures of
all time.
The weat


that I have never been able that night
It was this : $\quad$ I hed been speakinget.
my hope that before teen speaking of
elapsed she would so win months had
Cerrupted me by saying sho suacenty in
Uncle will never be won


CHAPTER XXXII.-Continued.
Nesting close to me, she gave herselt up for one wild moment to a genuine burst of teare.
I looked at her in uncontrollable emotion. "Oh, Mary,", said I, "have I
only succeeded, then, in making you miserable ?" II 1 I had not been taught to lo
noney so !." she said at length money so !" she said at length. "Ob
ohy they talk heart ! It some one or something woud only change mine en or something would of my ever being anything else no hope sellish, wilfu, mercenary girl !
That same night she made a discovery to terror Thiseased har apprehension almost the fact that Eleanore had beon keeping
a diary of the last few weeks.
Lice
on, she cried, in relating this to me the oh, day, "what security shall I veer foel as
long as this diary of hers remen she will not consent to deatroy it. And she will not consent to destroy te, though
I have done my best to show her that it is a betrayal of the trust $I$ reposed in
her. She says that it is
She har. She says that it is all there to and her reasons for doing as she has,
anthout it she would lack means of defence, it uncle sho would ever acc
cuse her of treachery to himp cuse her of treachery to him."'
I eadeavored to calm her by
that indeavored to calm her by ayying fears weene groundess. without mali e, such
not but eome would not be comforted, so 1 suggested that
she should ask Eleanore to doliver it to she should ask Eleanore to deliver it to
mee until she should feel the necossity


 seen Eleanore and made her ropuest.
It was accoded to with this that $I$ was neither to destroy nor givo, up all or any of the papars exxcept upon thelr united demand. A A small tin box
was act accortingly proured. int were put all the proof of Mary's marriaje

 and 1 stowed it away in over to ose me,
up
stairs, where it has lain undisturbed
last Hers Mrs. Belden paused, with a
 you will say,"," she began, "but leed wway hiding-place, Iast eveening, and, not with slanding your adviec, carried it from the
house, and it it in in an
$\because$ In my possession,", said left it it last night in the oldald barn that was burned down. : In ou cannot have ..Uness I found and brought it away
before the barn was destroyed," I sug
gested


 Thour story." andious to hear the reat a minnte semed to compose her, and after minute ghe continued, "On the eve of
he day beror she left, Mary came to
y house to bid me toodthy Nothing but hise deate a will ever it now it
possible for mee me to send for Mr. Chaver.

JUNE 22, 1905



## cossap.

At a nale of Belgtan draft horsee last Woek at Quebee, ten eatmals averaged lion, bought by the Kmmouraska Agriultural Socil

A great auction sale of Holstelncusesian . . . .ttlio June sth and 9 th, wheni 140 head of all agea, contrituted by a numin on ebreecders, brought an average of thae Notherland De Koo, sold for $\$ 1,000$
to H. B. Gordom, Kertonkson, N. Y. reamelle 2nd's Princees, nine years old, brought $\$ 800$; seven others brought $\$ 400$
to $\$ \$ 50$ each. and 28 head eold for $\$ 250$ nd upwards.
Mr. J. G. Clark, of Woodroffe Sto Mr. M. K. Koyu, a Japanese dairy farmor, who is in Canada studying dairying
convitions and incldentally buying conciaions and incidentally buying a
number of dairy oaitle, two bulls and en females from his prizewinning herd of Ayrahires. These will be the Arst Cana Mr. Koyu's intention to purchase bout forty head of Canatian Ayrshires and Jerseys for shipment to Japan.

$$
\begin{aligned}
& \text { Prof. Henry in his gtandand work, } \\
& \text { F Feeds and Feoding guotes Mr. The }
\end{aligned}
$$ Feeds and Feeding," quotes Mr. Thoo The Amberican Northwest, as follows : - 8 buehels of common charcoal. pounds of salt ; 2 quarts of air-stacked Hme : 1 bushel of wood ashes ; break the implement, and thoroughs mix. Then

talis. it pounds of sulphate of fron and bsolve in hot water, and of fron and ary watering pot and with an ord hole mass, and then again mix thorughly. Put this mixture into seli-feed ing boxes or place where
ages can eat at pleasure."
succerssful shorthorn salfes, Some very successful auction sales
Shorthorn cattle have
recently tnk place in the U. S. At the sale of th show and breeding herd of C. D. Bellows,
Maryville, Missouri, on June 14th. filtyaryvilie, Missouri, on June 14th, fifty
ve head sold for an average of $\$ 41$ five head sold for an average of $\$ 41$
Hampton's Model. the splendi
two-vear-old Phyllis hull, sired by Hamp two-year-old Phyllis bull, sired by Ham, ton's Best, hy. Merry Hampton (imp.
brought the magnificent price of $\$ 3.91$ betng purchased together with sever emales, at $\$ 1,000$ to $\$ 1,500$, for expor Argentina. It is said that $\$ 4,00$
was later offered for the bull, but was later offered for the bull, but $r$ Was the encouraging one that the high
rices were more the result of individual merit than of pedigree, many of the bost the sale of the herd of M, E. Jone Killiamsville, minnots, on June Rth, 3 head sold for an average of $\$ 298$, the 1 his averaging $\$ 846$; the highost pric
8750, for a yearling son of cing Banf, whose progeny was in grea
Lemand. One cow gold for $\$ 705$, an


Advertisements will be ingerted under this hoeding, sioh as Farm Properties, Help and
itiditlons Wanted, and mikoellaneons adver-
ilsinn
 are oountod. Cash must allay ane acoompany
the order. No advertisement inserted forles ine order. No ad vertisement inserted for lees
hhen 50 onts.
CIDER PR CIDER PRESEG-The underidgned (ffers for sele





W ${ }^{\text {ANTED Patrien maving land village property }}$


\section*{| POULTRY |
| :--- |
| COEAGS |
| 1 |}








 setting. These are from good laying atrain.
O. © S. OARRUTHEEB,
Cobourk. Ont.

CLYDESDALES
ROBERT DAVIES
Has two-year-olds, three-year-olds and ged mares for sale, in foal to "Right prices. City address
36 Toronto St. TORONTO, ONT. Bickerdike \& Co, Montreal, report the rom that export shipments of live stock from that port in the week ending Jur
11 th, $1905:$ Cattle, 3,377 ; sheep, 540 . The third annual open-air Horso Patad
and Show is to be held in the (2uern Park, Thow is to be hold in the Luern's
Paronto. on Saturday morning sharp. This is nn open-air avent free cers, and it is earnestly hopred by the uffly will make entries in the different pon $\mid$ serves.

OUESTIONS AND ANSWERS. Miscellaneous.
a dratnage matter A Reader, Harrow, Ont. : We could not knowing very much more of the facts of the case than we are able to gather from
the statement of same subimitted. solicitor should be employed in the regu-
lar way to get the whole matter lar way to ge
straightened out.
to prevent cow sucking herself. J. G. W. writes: "c The contrivance wo this : Take a common headpiece of halter and put on head of cow, then put
a rather wide strap around cow just back a
of the front legs, don't buckle tight enough to make cow's back sore. Then take a
small, tough stick, about 2 fieet long, put a ring in both ends, fasten one to
halter, pass stick between front legs and fasten to surcingle. The cow has perfec
ease, but cannot turn her heal总
Are hay hay caps.
Are hay caps a success or not? It
they are, where culd they be got, and what is the price? Ans.-We are of the opinion that hay caps do not grow in favor, as we have heard nothing of them of late, and do
not see them advertised for sale, nor do we know where they are made, or the
price. If the weather continues as price. If the weather continues as
catchy as in the last few weeks hay caps catchy as in the last few weoks hay caps
mey serve a. good purpoee. A. well-
known American agricultural writer adknown American agricultural writer ad-
vises the uuse of caps made of heavy cotton cloth six feet square, putting hay
up in large high cocks, say 150 hay ap in large high cocks, say 150 to 200
lbs. in each. String with a loop should be tied to corners of caps, and pins
made of strips of shingles 1 tinches wide used to stick through loops into bottom
of cocks to hold caps down tiphtly. Another writer says they may be clieaply
made of a square of cotton 40 inches made of a square of cotton 40 inches
wide, well oiled, and a stone tied to corners, or pegs used to stick into bot-
tom of cock through the corners, to keep them in plac

HOUSHE.
Mr. Robert Davie
For sale Clydesdale two-year advertises
year-old and aged mares in foal to im
ported sire, Right Forward (12310), by ,

Hon. W. C. Edwards, Rockland, Ont.
writes :
Please claim Wednesday, Jan uary 10th, 1906 . for our second annual
sale of Shorthorns. The English Thoroughbred stallion,
Cyllene, sire of Cicero, Lord Rosebery's Syby, sire of Cicero, Lord Rosebery's
Dorby winner of 1905, has recently been
for $30,000 ~$ guineas
( $\$ 157,500)$ ero has won ten races worth $\$ 40,000$. Messrs. W. G. Pettit \& Sons, Freeman,
Ont., write us that they have sold the Ont., write us that they have sold the
imported bull, Scotland's Pride, to Mr.
Geo. Laughlin, Calededon. Ont. ; to Mr. ohn Miller, Brougham, Ont., 37 yearling Shropshire ewes and 9 yearling rams,
We are now offering an imported Princess
Royal bull, Prime Favorite He was got by the great sire, Rapton Favorite,
a cut of whom appeared in the Farm-
er's Advocate. June 15th. He was five
year old when he sold for the long price
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Recipes.
Fangle
futter.
innamon

Corn Cake: One large cup, corn meal,
small cup . Five Res.
ugar, 2 eggs, 2 teaspoonfur, $\frac{1}{2}$ cup
bing
owder, 3 tablespoonfuls butter, phach of


Rurh Self Feeders for threshing machines not only cut the bands and carry the grain to the cylinder, but help the cylinder to do better threshing and the separating parts to do better separation.
Roth Feeders deliver the grain to the threshing cylinder in a thin regular sheet, preventing "slugging separator, two of the most usual causes of grain wasting
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Ruth Self Feeders have graintight bundle carriers, allowing no leakage to clean up after the job is

Roth Self Feeders have perfect acting "start and stop" governors.
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Ruth Self Feeders run light, last ong, work perfectly, cause the threshable to all threshers, and they have not a single experimental feature about them.
All threshermanufacturers cansup ply and attach Ruth Self Feeders Roth Self Fefoers and repairs are kept in stock at London, Ont. Six years of unqualified success in very rying kind and condition of utation of the Ruth Self Feeder.
PARSONS BAND CUTTER \& SELF FEEDER CO.

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By saving cream.
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The largest Fruit-growing Valloy in the FAR-TAMEXD OKANAGAN.
 Choloe fruit lots in and joining town, ample wator for irrigation.

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Kelowna, B. C


## THE ANCHOR WIRE FENCE

Is the strongest and best farm fence on the market. It is made
throughout of No. 9 galvanized steel wire, either plain or coiled throughout of No. 9 galvanized steel wire, either plain or coiled, person can construct the fence by following directions as given

GATES AND FENCE WIRE FOR SALE.
ESPLEN, FRAME \& COMPANY, STRATFORD, ONT.

In answering any advertiocment on this page, hindly moution the FARMERS ADVOCA2ts

QUESTIONS AND ANSWERS.
 2. Where could one exchange Canadian
money for English in this country? 3. Do they charge anything? If so, how
W. H.
much?
Ans. -1.4 s .1 d . 1 f . (to within a fraction of a farthing). (to within a frac-
2. Through the Canadian chartered
hanks. banks.
3. No, there is no charge made. buffalo moths. Mrs. J. D.,
how to gimcoe Co... Ont.. Ans.-If they have appeared in carpets,
take the carpets up and beat them thoroughly, then pour benzine over any parts
that give evidence of the moths' work. Before relaying the carpets, fill up the
cracks with plaster of Paris mixed with cracks with path putty. If the miths
water, or with
have have got into trunks or chests of clothens,
place a saucer on top of the clothes and place a saucer on top of the clothes and
pour into it a small quantity of carbon
bin bisulphide; close the chest, and leave
over night. The fumes will kill the
one moths. Clothing in which the pests hive
appeared treated in the same way. As carbon bit
sulphet sulphide is both inflammable and ex-
plosive, great care must be exercleed in plosive, great care must be exercised in
using it. using it. Do not use it, nor even open
the botule which contains it, in a room whero there is a fire or light of any de-
sciption. Use it in the open atr, or in sciiption. Use it it the open afr, or in
a room with open windows.

SLIMY OR ROPY Milk
Can you give any reason for wilk be-
coming stiff and rather stringy alomg the sides of the vessel in which it is placed, while it is yet sweet? It is aiways
thoroughly chilled with ice immediately arter it has been drawn. Is there any
way to detect which cow is the one at fault, out of a herd of about twenty-
four? Not a clot to be found in the strainer.
York
Ans.-Stringy or slimy millk is caused
by a large number of bacteria, which de by a large number of bacteria, which de-
velop in the milk and change the milk sugar into a slimy or ropy mass. Theese bacteria grow on the surface of the milk, as they require oxygen. As a rule, these
bacteria come from dust or from water, and get into the milk elther at the time of milking or some time afterwards. If the cans are washed or rinsed with
water containing any of these bacteria, water contaning any of these bacteria,
the milk is lianle to become ropy a short time afterwards. These bacteria grow at low temperatures; and hence the millk Prequently becomes ropy or stringy long
before turning sour. In order to get before turning sour. In order to gee
rid of this trouble, measures should be taken to thoroughly clean out the stable,
brushing down all dust and whitewashing. Thoroughly scald all cans, strain-
ers, dippers, etc.
Should the trouble ers, dippers, etc. Should the trouble
still continue, it woild be ndvisahle to
wash the flanks and udders of the wash the fanks and udders of the cow
with a woak disinfecting solution, in with a woak disinfecting solution, in
order to kill any of these slimeproducing bacteria which may have lodged in the hairs of the cow, and which are dislodged
into the milk pail by the movenents of trouble with hatching egas.
We are having trouble, new to us, with
our hatching egys this year, principally with hen's eggs. The birds seem quite
strong, and after coming out of the shell strong, and after coming out of the shell
are unusually healthy and brisk, but so are unusually henthy and brisk, but so
many die after being chipped. The outer
sholl shrcli (omes off, leaving the white imner
lining. which dries and hardens so that
tho hird cannot get rid of it, and dies, or is crushed in the nest. We have tried
setting the eggs under diferent conditions with the same esult. Can you offer any
wither differe conditions suggestions?
Ans.-While this is not a common occurence with egys set under hens, yet
there are quite a number of cases re-
ported. The exact cause is hard to loCatc. Personally I have found that
where hirds are set upon the ground, or in four or five inches of earth is used
thottom of the nest boxes, the trouble usually does not occur. Appar-
ently the shell becomes too dry and brittle. To overcomene this, I I would sug-
gest either setting hens on damp earth or it might be advisable during the last
week of incubation to sprinkle the week of incubation to sprinkle the eggs
with water.
W. R. GRABAM. O. A. C., Guelph. R. Graham.

EEZEMA OR SALT RHEUII
he most torturing of tuchinc Skin diseases-positively cured by
Dr. Chase's Ointment
$\begin{array}{ccc}\text { The skin } & \text { becomes } & \begin{array}{c}\text { reddened and th- } \\ \text { alamed } \\ \text { and }\end{array} \\ \text { pimples } \\ \text { are formed that }\end{array}$ burst and discharge a watery, sticky
nuid, which dries and becomes a sort of nuid, which dri
crust or scale.
In other cases there may be ulcers or sores. Sufforing is always intense on stinging, buraing The surface of the body should betept clean by frequent bathhng with topld water and castile goap, and Dr. Ohime'l
Ointment applied night and mornits. The control which Dr. Chass's Oint-
ment exerts over oesteme and ululler nitin
diseases is a wonder to all whe linve tested it. This moet extraordthery hivening power has made Dr. Olumeto Olit-
ment the atandard olntment tho world There is to guesswork about Dr. Chaser's Ointment. It fis appllied ditrootly
to the diseased part, and you ona ree oractly whise It doen part By its cleansing, soothing, healing notion it allaye infammate sore and and lower
tion, heals the raw
the skin soft, smooth and natural. the skin soft, smooth and naturel.
Wherever there it itching of the akin or
 box, at all dealers, or Fdmanson, Batee nature of Dr. A. W. Ohane, the tamo
recipe-book author, are on overy bos.


 ontrar cith


Pat-"Sure, I'd lay down me lolfe for ye, Norah.".
Norah- "Bu
Norah-" But would yez lay down a
carpet for me, Patrick ?"
$\qquad$
Man (in a hurry)-"' I'll give you five minutes."." Cabman (with provorklige
slowness)-" Well, sorr, you might brite slowness)-" Well, sorr, you might brt
me, but you can't bribe thet horee."
EVERY PLCE OII THE PRARIRES

Has Its Cure Credited to Dodd's Kidney Pills.

John White Could Got Nothing to Fely Ris Rhoumatiom Till He Tried the Groat Gamadian $\mathbf{I}$ idney memedy.
Yellow Grass, Assa., N.-W. T., June 26th.-(Special).-No place on the pratites
but can furnish soie proof of the pplendid work Dodd's Kidney Pills ary dolng in wiping out the Kidney ailments of the
West. It was near here that little Ddith Harris was so wonderfully cured on
Dropsy White is giving an experience almiost an remarkable.
" I think,"
"I think," Mr. White says, "I shourd
let the pubic know of the betieft I got from Dodd'a Kidney Pills. II had Rheu-
matism for years, nel neither doctor matism for years, and neither doctors
nor medicines did me a bit of good till nor medicines did me a bit of good thin
last spring I tried Dodd's Kidney Pills.
They did mest They did me a great deal of good. 1 ,
feel like recommending Dodd's KKidney feel like recommending Dodd's Kid
Pills even stronger than I talls." Dodd's Kidney Pills cure the Kidneys.
Sound Kidneys strain all seedn of dil
ease out of the blood. They tone up the body to ite


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It protects your wife and children against possible want.
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frite, 5 ohampions. Will now offer my entire looks of rams and ewes at priceas acoording to
uakity. ${ }_{0}$ J. C. moss. Jarvis, ont CLYDESDALE STALLIONS AND FILLIES. at reasonable pricos. Come and at reasonable pricos. Come and
see them, or write to Clydesdale Stallions and Fillies.
Importod and Canadian-bred. For selo: Throe
 oltyviow Farm. WAS, WNNES, Clydesdales, Rhorthorne and Leloestorn



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Dryonilit oile pripinit fanation cinaidition Salt Rheum, Eysipelas, Serofula, and all troubles
 Stomaeh, Liver, Stomaeh, Liver.

QUESTIONS AND ANSWERS Miscellaneous

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you would please have sent or inform


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bulls from 8 to 18 , Ont.



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JOHN CHAMBERS \＆SONS


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either with calf or calves at either with calf or calves at
foot．At a bargain if taken soon．
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SHORTHORNS Six young bulls， 20 cows and heifers，
 4．K．FABBaARN，Thaderat，on Shorthorns Cotswolds
 trom thick－fieshed，heavy－milking
dams aliso heiforsy same日ire．Prices
reasonable for early delivery．For JOHN SOCKETT，Roekwood Stn．\＆P． 0 SHORTKORNS and CLYDESDALE
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Lered．All young．
JAS．MOARTHUR Pino qrovestoak Pam．copblss．0nt． And an excellent lot of cows and
heifers．Scotch cattle，imp．and home． red．Rich man＇s cattle at poor man＇s
prices．Also high－class Yorkhire and AVID MILME，Ethel，Ont．，Huron Co ROWAN HILL STOCK FARN SHORTHORNS
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beest and sound SHIRE HORSE which from birth are kept in their natural
condition，neither forcing nor overfeeding Cor Showing purposes． C 隹iting Fingland are in vited to all and iee what we have to show
them and obtinin their stavilong and maros
direot from the men that breed them．



R．A．\＆J．A．WATT R．Ao Blora Station，C．P．R and G．ToI．
Salom Poo．Elo Our herd of severenty－live hood of Sootoh－bred SHORTHORNS compares favorably with the beest．Inspection
and correspondence invited． SHORTHORNS FOR SALE Four young bulls，including
22－month
3－d
 a fow good heiferi of game
fammily Primoon Day（Imp．）
at head of herde．
 Forest HIII Stock Farin Shorthorns ${ }^{-3}$ boholo serviceable age，and a few good heifer calve
For partionlarg apply For particulars apply C．W．KEAYS，HyCo Park P．O．，OAt Two young bulls 18 and 16 monthe old，bout

 MAPLE LEAF 8 TOCK FAAM
O Oholoe Young Bulls Hor salo． Also some cows and heifer and prizewinning SHopTHoputs and Donsets Write for what you want Also as
number of young Yorkshire sows D．Bartlett \＆Sons．．Smithville，Ont． Scotch Shirthorns ${ }^{- \text {Thy }}$ Soot young butlis．One dem Lady Y than 5th，imp； 2 others by Invph SHORTHORNS FOR SALE Iam offering for sale my impi ball 13 months old，and two red bull calves
（one of them ita Golden Dropp ready to
wean．Also two good heifer calves． Tugh Thomson，Hox 56 E．Sz．Mary＇s，Ont Cevar Vale Stock Farmio is offring for sale ${ }^{2}$
 $\frac{\text { Port Klgin Stn．and Telegraph．}}{\text { Piver View Stack Farm－Present offering：A }}$ horthorn Bulls ；ready for service，of exce

 －WATT \＆SOll some very superior Bulw Apply for partculart．
 Hoyal Dake，he by Royal Sailor（imp）．Also
few heifers and comp，bred to Wand ering
Count by Wanderer＇Lastimp）．
 Shorthorn Bulls y have for sale tho kood， fit for service，sired
$=4044=$ ．Come and fee，or address，


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and note how few parts it has，how perfectly
simple it io shew en it skims，how easily it is kert clean，tow stronk and the separator for you．Nc
separator ever made such rapid strides in popularity ${ }^{2}$
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purchaser．Everyone letting you prove for yourself
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One funtior yor yorling ghow bull in thow form，

 Crom $\operatorname{Imp}$ ming sire and dam home brod oows and helfors，all Wes yearling shropshire rams and 20 gearling



## 12 Shorithoni bulls

20 Oows and Heliers Good once sootah－bred，at moderrto SMITH，Exeter，Hurion OO．，Ont． Station edjolns them．Lons－alitaioe
Queonston Hoights Shorthoris


HODSON USHER，Queenston，Ont．
A．EDWARD MEYER
Boz s7s，Gmolph，ont，
TCH BHORTHORNS
SCOTCH 8HORTM
speolelity．Herd bulls：Soottish Hero（imp．），
Rosemary：
Lovely
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 Two Grand Scotch Bulls

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 OOOTOH－TOPPED GHOATHOANN
Young stock of both sexes for sale ；sired by

 Prenent offoringe，young cows and heffor
Mrfely in calf to Prince of Banf（imp．）；also






## SHORTHORNS

Bulls in service: Gold Cup (imp.), bred by W. Duthie, and Ardlethen Royal (imp.), a Marr Princess Royal

| Janus Sulth, | W. DuFLATT, |
| :---: | :---: |
| Manager. | o Hamilton, Ont |
|  | UnBTHAT | The oholoe broeding boll, Imp. Groen-




ค. MITOHELL \& BONB.
Then TRRER IMPORTMD
 hour importod oows in oalt, homebrod sows taminios. Four mported Shropehire rams,
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FLETOHER SHORTHORNS Our herd of bre oding cows, both importod
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Sooton-toped from yood milk kin fami,
lies. for sale at low prices. Write for lies. for sale at haw prices.
catalorue and particclars.
caspection Hillinat Rtas, A. OOORRANE,
 shortiolen BULLE, various ages: im.
ported and home-bred, by imp. Gay Lothario, Cruilokshank Javender.

 Bows to geleot from, and theirir pro
right. Also honorable deaing.

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mportod and home-bred, male and
fromato, prize and sweepstaikes winnera,
varion agoe. Anything for salle.
s. J. MoEMIGRT,

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 pareil Archer mimp, Clipper Hero, eto. For
further perticular.
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duced prices for the next 60
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Scoich Shorthorns Herd headed hy Imp. Royal Cham-
poring iroung tock for palir from
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very fine heifers of onr own brooding, by imp.
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Still have a few grod young
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Three young bulls fit for eervice
Showing the finfest Oruickshan
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15 Shorthorn heifers, sired by imp.
bull, and io caif to imp. bull. Also
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bull, and in calf to imp hall. Also
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are large milkers.
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JOHN GARDHOUSE \& SONS Scotch and Scotch-tomod Shorthorms, Snire Horses, Lincoli add Lelcester Sheep.

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 adires,


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 P. O. bor 101. - Hunting ion, Que AYRSHIRES, sionolob bill oalve日, forit to
 AYRSHIRES FROMIM A PRIZEWIMIIING HERD
 SHANNON BANK STOCK FARN FOR AYREMIREE AND YORKEHIRES
 W. H. TRAN, Codr Grove, ont.

 MEADO WISIDE PARTI

cossu
BiNDER TWINE. - The attention of armers is directed to the advertisement
in this issue of the Plymouth Binder Twinis Agencry. Toronto. Ont. It will be
well to enquire into the merits of this well to enquire into the merits of this
twine, and call on their agents to see 11
 as to the the guality of Plymouth binder
twine. twine.
In selecting a sire for breding pur-
poses the animal should be booked poses the animal should be looked at all
at once and not merely poin by polnt,
so os to balance the whole antmal: do
 Tect against strength and strength
against weaknoss
and the
adiferent parts. against weakness in the difirent parts.
There is a knind of intuition developped by
oxperience and onservation which aids in experience and observation which aids in
the right conclusions, but which cannot
 unless a knowledfe alreary exists of the
females with which he will be mated; females with which he will be mated;
and it is truite posibibe that twor men standing at the ring eide may purchase
two animals
Characteristics.
quite
and characteristics, and yet hoth be abun-
dantly satisfed...Dryden. The good store, being comparatively Ctin in fesh and temporarily lackligg the
have any regard for either the appeare-
 the eye as he will after a few mon thes
teeding, but he shoutd, nevertheleas, pro-
 wide back and loin, prominent briaken,
full
nueckvein, wide chest, and wollrounded barrel, together with a good,
goot, mellow-handling skin and fine, silky
 mossy coat, without coorsenes, and
with It all a goot, strong, vigorous hend, with it an a good, strong, vitiorous, head,
clear, full eye, and quet temperament. Experience will teach the eye to recognize
these qualities at a glance, a thing which must be learned, for in huying a large
bunch of stores, it will be found Impos sible to study, each one very mimputely.
The man who, by close observation, learns to recognize theas quailities and to
avoid culls, will very greatly fincrease his pronts, and if in addition he gelects
a lot that in size, quality and general dppearance are very uniform, his stalle
will will present such an appearance that he
will get the hyhest market pricos for his
fintished product. finshed product.-Cumming. Fow pur-bred herds and focks in Can-
ada are more widely or more favorably
known than those of the old breeding known than those ors. Douglas, of Chale
estantishing or
donin.
Ont. of numbered about 65 head at the time of
nut
recent visit bede a recent visit, headed by that splendid
imported roan bull, Rosicruclan of Dalmeny $=45220=(821177)$ whose
cotock
coming thick coming thick and smooth and of the ap-

 families of the day, such as Nonparelis,
Crimson Flowers,
Strathallans,
Miss Crimson
Ramsens. etc. stock of breading age are by the noted
sire of good stock, Christopher (Imp.). by Emancipator. Among the 21 heifirers seen roaming leisurely in luxuriant altalfa
pasture some choice things were found pastre, some choice things were found
such as, with reasonable fitting, would adorn any show-ring. Among theme 18 to
an especially smooth, straight roan tw?-
 Yearing, hy Rosicrucian of Dalment
(iinp.). Among the last crop of calves
are several hulls about to are several bulls about 10 months ohld,
by imporled sires, dams, and several goos enough to head first-class herds.
While the the teicester fock is not large numbers, it is up to the best standard in quality. Among the number for sale are
geveral yearling ewes that are being put several yearing ewes that are being put
into show shape, and hanyone wanting
get
a fow for ahowing out get a few for showing would consult
their own interest by invirng about
then those Shep and lambs from this fock
have won hifghest honors in the largest

han | shows $\begin{array}{l}\text { in America, and we think some } \\ \text { likely } \\ \text { winners could be selected } \\ \text { from }\end{array}$ |
| :--- | among the lambe as well as from the ram that has sired such sood stokk for

Mr. Douglas is now tor sale owing to the

STRONO AND VIOOROtIS.
Every Organ of tho Body Tomod up and invigoratod by


Mr. F. V. Moyeri, Eing BL. B., Borlia,
 one box of Tilburn's Hoard and dory
 Sool mitrong ana Vforouen Mero Pile oure




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crops depend on a sufficiency of

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in the soil. Fertilizers which are
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A. S. MILNE,

## Rsthma


 reeting Athme ward Hay your or suacion


 STOP and THIIK For a mall oper oi gain art iobaco onivily

[^0]THE SPICE OF LIFE
Denmark is a country of intensive farmi
Ing. Every available foot of ground is
under cultivation. Cattle are not
lowed to roam at will and trample down ai-
the pasture, the pasture, but are either tethered in the
field or fed in the stables, field or fed in the stables, and even
sheep are to be seen tethered to stake
and disconsolately and disconsolately tugging at their ropes,
As for the pigs, they are not tethered but are kept closely confined, except the
breeding sows, which are given a rather breeding sows, which are given a rathe
limited amount of exercise.-Day. Sunlight is not only the cheapest, but
also one of the most. efficient known for the destruction of disease
germs. It follows, then, that the win germs. It follows, then, that the win
dows should be of good size and numer ous. In a wall twelve inches thick with
the rays angle of forty degrees, a window sixt
inches wide will inches wide will admit nearly three time
as wide a stream of sunlight that wid a stream of sunlight as anothe
that only thirty inches wide ; and il the wall be twenty inches thick, the on
will admit. under the will admit, under the same conditions
more than four times more than four times as great a stream
of sunshine as the other. Hence the economy of large windows and thin walls.
-Ketchen.

An enterprising salesman from one o the large citlos went to a certain rural
commundty and endeavored to sell an incommuns ty and endeavored to sell an in-
cubator to a farmer. His argumenits did not make any impression upon the agri
culturist. Finally, as a clincher in favo of his up-to-date improvement, he ox claimed:
The farmer squirted a mouthrul of
bacco juice on the ground before reply ing, and then said, with provoking caln-
"Oh, what's time to a settin' hen ?" That settled the question. No incubetor was sold.
Judge Poland, of Vermont, was a mem campaign speaker. He was not a strict temperance man, though by no means intemperate. He was to make a speech in Maine, where the temperance Lews were
etringent. The chief committeemal knew the Judge, so he placed two muge, supposed to be fllled with millk, on a table
near where the Judge stood. Slyly the conmitteeman intimated to the Judge which mug he should drink from. The Judge had not gotten far in hl raised the before he became trsty. E raived the mug, quafled it to the bottom
then exclaimed: "Ye gods, whet cow."
When Davy Crockett sat in the NationState of Texas the had many clashes with imen of more education, but lessowit than bimself. It is told of him that one day
while standing in front of his While standing in front of hra Trotted by under the custody of an over-
noer from one of the stocl farms in Virghia. A Congressman from Boston, Crocketr's attention to the unusual alght saying: Hello, there, Crockett ! here's a 1ot o your co
they g The celebrated hunter looked at the ant-
mals with a quizzical glance, and then mals with a quizzical glance, and then
turning to the other, said quietly, bu with great emphasis, ic They are goligg to Massachusetts to teach school.
A Moblle man tells the following story of an old character in that town who
for many years has done a thriving business in hauling ashes. One day, says
the Mobile man, he chanced to be in the the Mobile man, he chanced to bo in the
rear of his house when the darky in question was preparing
the depart with
the customary load. "I've neen you haul many a lose of of the house, but, my good man, during all these years I've never had the least Idea of your iname. George Washin'ton seh," Mah name is George Washin'ton the old man, with a duck of his head.
in George
"George Washington, eh ! " relterated
the questioner. "It seems to me," he the questioner. "IIt seems to me,"
added, with a smile, " that I've heard that name before." "Reckon you have, sah." came the an
" swer, in all seriousness, '. 'cause Ino been
heulin' 'Way ashes from yo' house for more'n ton years.'


London. ~ Toronto.~Montreal.
Winnipe ${ }^{3}$. Vancouver ST John. N.B

## WEKKIESS OAN BE CURED.



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cost in the long run? These questions are important, because harvest time is short
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many good qualities, smoothness, length,
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A. LEMIRE, Wotton, Quebec. WM. L. AMIRAUX, ${ }^{40} \underset{\substack{\text { Lanendowne, } \\ \text { Avenue, }}}{\substack{\text { Toronto } \\ \hline}}$ Grand Trunk Railway LEWIS \& CLARK

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    couver at very low rates. Correspondingly ctieap rates from all potnts in Canservice: Chalce of routes; bornt of train
     Sornation can be obtalners and full in-
    Bennult. General B.
    H. Torunt., Ont. How citen we find that what we fought
    ag Mo. was the best after all.

