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 praterala gandenerers or stockmen, of any publication in Canada.

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I feel that it is my duty to info
your paper is the best I ever read."
T. E. Clay.
Gov't Immigration Office, Halifax, N. S.

Our Monthly Prize Essay. A prize of $\$ 5.00$ will be given for the best essay on "The Best Methods of Economizing Work on the Farm." Essays to be handed in o later than the 15th of July. Our prize of $\$ 5.00$, given for the best
essay on "How Can Farmers Make the Best and Cheapest Cheese for Their Own Use," has been awarded to Miss Maggie Webster, Augustine Cove, P. E. Island. The essay appears in this issue.

Sheaves from our Gleaner.
Weeds!
Fix fences.
Pasture pigs.
Like begets like.
Now grass is king.
No manure, no crop
Breed out scrub blood
Eggs absorb bad odors.
Economy begins at home.
Bravery-Fighting insects.
A dear article-Cheap help.
Late spring-Busy summer.
How not to farm-By proxy.
Wet days-Repair your tools.
Thin out over-loaded fruit trees
Cut suckers from the fruit trees. Poor pastures-Unprofitable stock.
Good pastures-Good meat and butter Old cows produce thinner milk than young If you
In
ive you.
fertilizers. It is said that
If your hens have vermin put tobacco leaves
in their nests. The biggest no
Turnips fed immediately after milking will te the milk.
When to color butter and cheese-Before ey leave the cow. heese than for butter
Bathe the horses' shoulders once a day with cold water ; keep their collars and feet clean. The cheapest way to mend the hole in you pocket-Study nobody's business but your own. Farming for profit-Good drains are cheaper

Prevent fires.
Fix ajar gates.
Pigs need grass
Go to the picnic
| Tailings-Bad farming.
Tyrants-Noxious weeds.
Improve your native stock.
$\mathrm{An}^{\prime}$ honest price for honest milk.
Feed the sown crop, not the weeds.
Improve the farmer ; then the farm.
Don't keep a vicious cow for breeding.
Don't put a dairy cow to a beefing bull. Learn from last year's mistakes.
A good farmer-Known by the papers he takes.
Don't be led astray by fanciful colors when reeding.
Now is the time to make calculations for next year's dairy.
Double pay-Soap suds fertilize plants and Double pay-
destroy insects.
Improve animals of mixed blood by using pure bred males.
Seek early maturity for a beefer, but length of use for a milker.
What you can't do-Change your diet or ro. tate your crops too much.
If you want to know what you are going to
Give and take.-If you
Give and take.-If you give your arm nothCaution to farmers-The bit
Caution to farmers-The biggest bonanzas in
these days are in live stock booms. If you want the race to deteriorate, breed before the animals are mature.
Put lumps of rock salt in the pasture where the stock can have free access to it.
First consider your sources of loss, and then begin to figure your sources of profit.
In Edmonton, N. W. T., the total value of buildings erected in 1883 was $\$ 31,100$. It is better to buy a good animal with a good pedigree,
pedigree.
pedigree.
Doing business backwards-Signing a document, leaving the reading of its contents for a rainy day.
A heifer which has been stunted in growth by foor food or bad management should never be kept for breeding.
If you want to raise fine steers for fattening, now is the time to make calculations before your cows are served.
The newest and most effectual way of supressing contagious diseases in live stock is by cremation of the carcasses.

## Gditoriaí.

## Dairy Cows.

Before getting the cows served there are many important questions to be considered. If there is a heifer in the herd, at what age should she drop her first calf? Is there an aged cow, at what period does she cease to be profitable for the dairy? Does the farmer want to raise beef or dairy stock, or does he want to combine these industries by raising a class of animals nitable for all purposes? Now is the time to to come.
In sections where only one breed exists, and where only one line of live stock industry pre vails, there can be no difficulty in selecting a sire ; but in an all-purpose district where there are different stamps of native cows, as well as different breeds, it weuld frequently pay to go a score of miles in search of a desirable sire. It is against the laws of animal economy that perfection can be attained both in the milking and the beefing qualities of the same breed. Even if an equipoise were once established, it could not be maintained, until a much pro founder knowledge of the breeding art than first acquired. A cow that keeps in a uniform. y good condition carries on her boes an in vestment sunk for years, which would have yielded quick and profitable returns had it been converted into milk or young. In beefers the desirability of early maturity cannot be questioned; but in dairy stock care must be taken not to do violence to conflicting laws. If early maturity in the heifer be encouraged, ecundity becomes impaired by the process of high learing; if the feeding be moderate o scanty, a late maturing propensity will be de veloped in the offspring. Our conditions not of maternity should incline more to the thir than to the second year, even in the lighter classes of dairy cows. The principle involved is this: A heifer rationally fed always assimilates a uniform percentage of her food, and if she is served while immature, a portion of the nourishment which should have been expended in building up her frame is transformed into young, whereby either the mother or the calf, or both, must suffer in development; and while she is giving milk, there still remains a double strain on her system. It will not do to avoid this by milking her sparingly the first season, remain but partially developed, and her useful. ness for the dairy would be checked. There is still another violation of the same principle amongst farmers and dairymen. Forgetting that a calf is nothing but condensed milk, they sometimes expect the cow to give as large a yield of milk all the year around as if she were not pregnant. If their expectations were realized, how could there be a calf? Hence the desirability of letting her dry six or eight gained in the calf: and in this case the "quick returns" argument has no weight; in fact the slower the returns, within certain limits, the greater the final profit.
Another advantage in allowing a heifer to mature before dropping her first calf is that the period of her dairy usefulness will be length-
ened. Having a beefing propensity, she cannot be profitably kept for the dairy after her sixth year, while if she is exclusively of a milking stamp, and allowed to mature before parturition, she will be pr
It costs considerably more to fatten old than oung animals. The most profitable returns in the production of beef ceases between the ifteenth and eighteenth month of the animal's ge. A well-fed beefing grade will gain an months of its life, while in its sixth year it will scarcely gain a pound a day, proving that it cannot be profitably fed at this age for the reason that it will be more profitable to feed at an earlier period. The same principle holds good with regard to the production of milk; hat is, although a cow may yield ever so much profit, the investment may in one sense be rearded as a loss so long as the same quantity fooll elongs to a beefing breed, the loss is ruino Deal peremptorily with superannuated cows The most desirable qualities of a dairy cow are large digestive organs, indicated by a full barrel; a wedgy frame; a large, well formed udder; large, winding milk veins; a gentle disposition, and a sound constitution.

## Canadian Agents,

The Canadian Manufacturer urges that Canada should be represented in the different to push the trade of the Dominion. It thinks that our manufacturers can find profitable markets in Australia on the completion of the Pacific Railway, as the trains-Pacific voyage is nuch safer than one down the Atlantic and around either of the two great capes. The Manufacturer also favors the appointment anadian agents in foreign countries. It is in part to meet the necessity of having som ffices with whom persons might correspon he Fuglish market for nar produce extent interest it would be to develope the trad this Province with England that the Loeal covernment have appointed an Agent-General ,reat Britain for New Brunswick. W hink the appointment of consular agents $t$ onies, would be a move in the right directio

The General Purpose Cow. It is the practice of many farmers to keep lass of cattle which is equally well adapted to departments of their live stock industry hen superannuated, so far as the dairy is con erned, its usefulness for the flock is not yet one. Many other authorities also uphold this ractice, thinking that unless an aget cow can ble turned ine bee, a little figuring will thro ight on the question. Let us take the Devo as a representative of the general purnose cov, and let the Ayrshire represent a milking breed -supposing, or the sake of convenience, such nimal to weigh 1,000 ths. Granting that the Ayrshire is no longer fit for the dairy after the
age of ten years, and that her carcass is of no
use for beef, while the Devon, at the same age in store condition, realizes say $\$ 30$. But the carcass of the Ayrshire must not be lost sight of altogether; it is not fair to suppose that it is hauled into the bush for crow feed, as is the practice amongst most farmers. Such a car. of phosphoric acid and of nitrogen, 25 the. of phosphoric quantities of and 28 ins. of lime, besides stituents, which at current prices, wash con. nearly 89 for the compost heap, $\$ 4$ for the hide. Subtracting these $\$ 13$ for $\$ 30$, we have an actual loss of $\$ 17$ when com pared with the value of the Devon's carcoss What gains are to offset this loss? The Deron will give say $2,800 \mathrm{lbs}$. of milk per season for six seasons, and the Ayrshire 5,200 Itss., con. tinuing eight seasons. Counting milk at it cents a pound, $\$ 252$ would be realized from the former, and $\$ 624$ from the latter, leaving a bal. ance of $\$ 496$ in favor of the Ayrshire on the milk account. From this amount subtract the $\$ 355$ to If the Ayrshire give only 29411 wal or 141 lbs . per season more than the season, this difference would make up for the bes the carcass. If one breed is bred for general purpose, and another exclusively for the dairy, will any farmer now assert that the difference in their milk productions will not be greater than this? Although these figures may only be regarded as approximate, they are sufficient to prove the absurdity of breeding general purpose dairy stock.

The American Humane Association is effectng a good work towards mitigating the cruelties inflicted on live stock during the process of transportation. Thousands of animals are daily succumbing to the tortures of their railway accommodation. Congress has passed a law compelling railway companies to remove live stock from the cars, allowing the animals is only hours rest in every twenty of travel. This ment could be strictly narried if the enactgoading of them into their repulsive quarters would scarcely be less agonizing than the me. thod of through shipment. The association have offered a prize of $\$ 5,000$ for the best live stock car shat would prevent these cruelties. This has stimulated invention, but some of the patentees thought it more profitable to have their cars patented, and some of these cars are now in use on two of the American lines. Mr. W. S. Hunter, of Belleville, received a gold by him. It is to be soon move in the same directio. The tors of the association stationed the stock yards have also been a means of relieving suf. fering and preventing deaths amongst live stock.

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## Wheat Prospects.

 A recent circular from the Bureau of Indus. tries contains statements relating to the state of the crops in Ontario. The condition of the fall wheat, on the whole, is much more en couraging than it was a a decrease of fall wheat acreage. The spring life many apparently dead fields. In the Lake Erie counties there is prospect of an average crop. In the Lake Huron counties the reports are not so satisfactory, although the light soils and well drained clay lands have escaped damage. The average of these counties is esti mated to be from one-half to two-thirds of a full crop from the acreage sown. The wire-worm is reported in Moore township, Lambton county. There are good and bad reports from the Georgian Bay counties, most of the damage being attributed to late sowing. One report from Innisin, county simcoe, mentions the Hesian fall alough ion the west Midland counties, Perth being the least encouraging. The Lake Ontario border is extremely encouraging. The reports from the St. Lawrence and Ottawa districts vary con siderably, but, on the whole, they are not very flattering, and the reports from the east Mid land counties cannot be said to be extra en couraging. The comments prove the necessity of proper drainage in the heavier soils, and of thorough cultivation. The raw, cold, April winds have been the most fruitful cause o damage. The wheat, however, is making won derful progress, and farmer's expectations ma yet be more than realized.
## Tape-worm

We have been forwarded a portion of the entrails of a sheep that died a few days ago, the result of a long tape-worm contained in the county. One of our subscribers fam another him lost all his lambs last year from the sam ource. There appears a decided reluctance o the part of some to allow these and similar acts to appear, but we deem it our duty to caution you against procuring sheep or lamen known to exist, as you may introduce it Once on your farm, it may cost you greater loss to extirpate the disease than you may at firs estimate. If you should have an outhreak of it, or sheep or lambs die from some unknown cause, examine them. If the tape-worm is ound, adopt the following cure:-
Raw linseed oil, one-half pint; turpentine, ne-half ounce. This is a dose for shearling or lambs ; in older sheep the turpentine may be increased to nearly an ounce. Four or five doses may be given at intervals of sheep in the days. If the worm attacks the others may be susped of having taken it and the same dose may be given to the whole flock. This is the safest remedy for farmer's use, but oil of male fern may be given with good effect by a skillful veterinary.
The most profitable beefer is the animal which produces the greatest willest quantity of food; and, the most profitable cow is the one that gives the greatest quantity
ity of milk on the least food.

Government Importations of Stock. The Government are making a large and exThe Goveratik aiferg a or the Model Farm, at Guelph, Ont W, ave previously expressed our opinion of the nexpediency of bringing cattle from countries where diseases are known to exist, when we have in Canada as good a lot of animals from which to select as can be found almost any here. We must protest against these newly porm, which catle being placed on the Model ial report of that institution, is infested with disease. It would therefore be only reasonable expect that if these fresh importations are paced there they would soon the sam nderstand the ores mave been made, ould therefore suggest that a farm be leased in the vicinity of the Model Farm, upon which the imported stock could be kept for a year or wo ; but better still, in our own opinion would be to sell them while in quarantine a Point Levis. As the purchases have been so oudly heralded there ought to be no difficulty in disposing of them, and at a profit. Th Government could thus recoup themselves fo he expenses of the trip made to the old worl by their officials, instead of adding to the bur den of the tax payers.

## Danger

Being aware of the ruin caused by diseased nimals in England, we have deemed it our duty to call the attention of those in power Canada. We have allowed our reputatio for veracity to pass unheeded, when w deemed you might be injured by our justifica tion. We have used our influence to make the quarantines as efficient as possible, and in som instances endeavored to check importation diseased meat and dsasiety of placing a quaralso suggested the proprarm, for the numerous diseases that have existed there; for instance, Tuberculosis has existed in the following classes of animals on the Farm: Shorthorn, PolledAberdeen and Ayrshire. We very much regret that it should fall to our lot to call your attention to it.
Tape-worm, or Fluke, or Liver-rot in shee there is a dispute regarding the name), an the Foul-in-the foot in cattle has also appeare Neither of these disease conada, but the stock from the Fan has been introduced to many localities. Perhaps no evil effects may have as yet arisen, but danger exists. Other disease still more dangerous than these have been introduced into Canada, but fortunately for us, they have not taken root, as up to the present we have enjoyed a great blessing by this freedom from disease. It is only by care that we can hope to maintain our reputatect your for your benefit we have treinform you that interests. We regred in a most designing officials the this journal. It has manner attempted to turn facts into falsehoods; very garbled accounts have been published of statements made by us, and open and fair information has been suppressed. An in dignant feeling has been worked up, which
ust tend to injury, and instead of open and air discussions, that fell monster, "boycot ng," appears to have now been introduce to our country and to have gained a hold at College, as a resolution was introduced a recent meeting held there to censure or chec he influence of your Advocate; and at the last meeting of the Board of Agriculture an Arts, one of the Government officials said th ADVOCATE should be boycotted. This implies that an open war is possible. Boyootters mag It is manti-boycolers.
Lt and to be disenard and cotting gains its full sway, and in this instance we believe the principal object in view is to suppress truth.

## On the Wing.

Since our last we have taken a trip to Barrie, Ont. This is naturally the prettiest location for a Canadian home of any apot we have visited in the Domino. the land from the nine miles long runs long its shores on either side. Many half-pay officers have settled here, and some very beantiful dwellings are erected along its shores. There are some fine farms in this locality, and its name as a stock centre has been in the ascendant. The late Mr. Brydges had established a great reputation for his fine herd of Herefords, at Shanty Bay, only six miles from Barrie. He had a large farm there, and was improving it rapidly, but since his demise some of the stock has been sola and woll soon be Mr O'Brien, living near, hảs a small herd of Devon cattle. Mr. W. Hicks has Shorthcrns and some fine bred sheep. Dalton McCarthy, Esq., Q. C., M. P., has a fine herd of Shorthorns and a fine flock of Shropshire sheep, at Oakley Park Farm, situated within the limits of the corporation of Barrie, and ia considered one of the most desirable farm properties in the county of Simcoe. Nea Aurora, Mr. Seth Heacock has an old establish ed breeding farm, and has a large lot of or horn cattle and southdow. Ho is in a commanding posi His cattle, although wellstock for Motion as high a condition as the ma jority of the breeders south of him keep their animals, but probably his stock may be more suited to the north than those that have been fed heavier. Mr. Lemon's farm is but a short distance from Mr. Heacock's. The land on Mr. Lemon's farm is rolling, lying in such a position as to command a view of every field and nearly every part of the fielas from the road. The soil is good. This gentleman appears as a stock raiser. He has some a taking as a stock raiser. He has some an takes every care of them. Here we find the Oxford sheep are in vogue, Mr. Lemon havin just commenced to establish a flock of thi class. We called at the farm of Mr. W. Linton, who has established a rather enviable name an an importer, as we hear from others that $h$ is a most particular person in the importin
business, bringing none but superior animal business, bringing none but superior animals.
His European connections give him great His European connections give him great
advantages over many importers. The crops
in the vicinity were looking well.

Special ©antribufors.

## A Chatty Letter from the States.

 [prion our chicaao corrbspondbnt.]The recent panic in the New York stock and money market is said to have caused a shrinkage in values in the States of some billions of dollars in about sixteen days. It seems almost incredible that such a flurry, the result of too much gambling, in a genteel way, on boards of trade and stock markets, could cause such short time. It was pre-minently in such shor and if they were the only ones to suffer the country at large would rather have cause to rejoice, but as it is the weak and innocent ones rejoice, but as it is the weak and innocent ones
who are always made to suffer the most by such breaks, they always occasion widespread oonsternation. If the gamblers in stocks and money could be made to suffier alone, there would be an element of pleasure in seeing them punished.
That there is too much speculation abroad in the country cannot be successfully gainsaid. Values are inflated by watering stock and othe wild-cat schemes, and periodical panics are in duced thereby. On the large boards of trade proportion to the sales of atual who never saw a barrel of mess pork. People of lard, freely buy and sell those articles on future delivery with the greatest of freedom. In other words, they freely wager their money that certain articles will sell lower or higher, as the case may be, by a certain time.
The credit system is being largely used in the west among stockmen, and together with the closer management and narrower margins, is making the stock business much more unsafe than it ever was before. In the olden times, and to a considerable extent up to within a fe years, he specuialive element do not enter in farmer owned his own store stock and fed it on fattening material from his own place. If he had no stock or no feed, he had no fat cattle or sheep or hogs. But now methods on farms in the west, at least, are different ; of course, the great majority of farmers still adhere to the safe and sound principle of dealing only in what belongs to them, but the credit system is almost as general in the raising and handling of live stock as in mercantile business. Wester stockmen form huge stock companies, and bor row money at high rates of interest to do it have each several hundred thourad dollo loaned at ten to twelve, and as high as fiftee per cent. on cattle that are being prepared for per cent. on cattle that are being prepared for
the market. Should the money market become seriously tight there would be a good many failures among western stockmen who hav been doing business on
high rates of interest.
rorters if
exporters of American live stock have not been mach encouraged by the returns of their anins thus far this year. The prices of cat much higher than on the other. Our prices not much lower than one year ago, while price in foreign markets are at least one to two pounds per head cheaper than one year ago.
This, in view of the high freight rate which ves.
sel owners are exacting, leaves very little mar gin of profit for the shipper. Among the novelties at market recently were ranges, which had been fattened at Omaha on distillery slop. One lot of two and three year olds averaged only $1,235 \mathrm{lbs}$., but they sold for 66.75, the highest price of the market on the day they were here. The other lot, averaging $1,443 \mathrm{lbs}$. , dressed a fraction over 64 lbs . of net beef to the hundred. Distillery fed cattle ight along with corn fed stock, and they sell good prices.
The proposed scheme of sending western American store cattle by way of the lakes and Canada to England, bids fair to fall through entirely, for the present at least. If store cattle were admitted free, by that means it would be hard to discriminate against fat forward to cony of that kind would be sent with Canadian and home raised cattle in the interior markets.
Frices for young stock and feeding cattle are not so high as they were a short time ago, but prices for young cattle are relatively $\$ 1$ per years ago, as compared with fat cattle. This of course narrows the profits of the feeder. It has been the custom of a good many farmers of cattle in the buy large numbers of young, thin tures during the summer, but, in conversation with an old farmer of the Genesee Valley, New York, the writer found that winter feeding on hay is profitable, and is being done a great deal, On good, tame hay, with ample sheds for shelter', young cattle from Dec. 1st to May 1st will put on about 150 lbs . of flesh.
An astonishing amount of young stock has of the far west Lastern states to the ranges young cattle, both for breeding and for fatten ing, have gone forward to $W$ yoming, Colorado and Montana. During the past winter a good many of these cattle were lost on account of not being acclimated, but the losses from this source were lighter than predicted by many old heads.
The fine stock markets are moderately active, but there is a total absence of excitement, and not a few speculators who had hoped to ealize small fortunes by selling a small herd or two of favorite cathe, are inclined to think the deal more por generally realized. There are schemers and sharpers in the business who would not hesitate to misrepresent by manufacturing pedigrees ; using shears and coloring matter on sheep to give them the proper shape and color ; or mis. representing the yield of a cow's milk by torture. Any business that pays is sure to be inested with rogues, and the fine stock trade is not exempt.
There ought to be a heavy fine imposed on nybody who tortures a cow by compelling her in the show ring. It is a custom that is very prevalent among some who are termed our best breeders. There are all kinds of sharp and cruel tricks resorted to by stockmen for gain, but, as a rule, they are detected sooner or
ter, and the good old fact remains : "Honest is the best policy." By dealing honorably and prightly, a man is not unfrequently outstrip ped by his unscrupulous competitors, but ther a peaceful satisfaction that comes from right doing which all of the gold and blue ribbons in e world cannot buy.
Much depends upon the success of western rops this year. The affairs of the country are such condition that a failure or even a par fit. The spring has would be very keenly .l. The spring has been somewhat back anything but a bountiful harvest $A$ fail his year if accompanied by a genal ercial depression such as has been largely predicted, would result in much trouble, no doubt, as it would make work scarce and bread ear. The country is filled with hundreds of oousands of foreign anarchists, and is not in ondition to withstand anything like a famine here does not appear, however, to be any anger of crops being short.
American farmers have not as yet learned to epend upon any kind of fattening material, except corn and peas, and in that way are ritain 1 Britain an

## PRIZE ESSAY

## How Can Farmers Make the Best

 and Cheapest Cheese for their Own Use.Thear wbster, augesting cove, p. в. ishand. This process is a simple one, and the needs the are few. Every pound of cheese requires ten pounds of milk, and a ten-pound cheese is about as small a one as can be conveniently made. A clean tub which will hold the milk, and a boiler large enough to hold ten gallons, will be needed. A small press, which any stone upon, will also be required, "know-how" is all the rest Making is a chemical operation, and depends greatly like all other such work, upon temperature One cannot be safe without a thermometer, as a rule of thumb will not be precise enough The first thing to do is to bring the milk to temperature of 90 degrees. This makes a soft cheese; a higher temperature will make a hard one. The milk may be of two milkings-the evening milk set in a deep pail in the cellar and stirred late at night and early in the morn ing, to keep the cream from separating; and after milking. If any cream has risen in the evening's milk, it may be skimmed off. The evening's milk may be warmed to 100 degrees and then added to the fresh morning's milk which will be about 80 degrees; the whole will then be about the right temperature, which 90 degrees. The rennet is then added. This is the liquid made by steeping a piece of the dried stomach of a sucking calf in warm water For 100 pounds of milk, or 45 quarts, a piece of the rennet about as large as one's thumb, or quart of warm water in the wide, is put in a a tablespoonful of salt. In the morning this liquid is strained into the warmed milk in th tub, and well stirred through it. The tub is
then covered to keep the milk warm until the curd is formed, which will be in about half an hour. As soon as the knife is drawn through it
cut, a long-bladed both ways, so as to cut the mass into inch oubes. This causes the whey to separate, and when this separation has been effected, the whey is dipped out or drawn off, and the curd gathered into a mass at one side of the tub, the tub being raised at one side to cause the whey to drain off. The tub is kept covered to retain the heat, or if the curd has cooled considerably the whey that has been drawn of is heated up to 100 degrees and turned on to the curd unti it is warmed through again, and the whey is
then drawn off. The curd remains thus for then drawn ofr. until it attains a very slight degree of acidity, when it is broken up fine with the hands, salted with about half an ounce of salt to the pound of curd, and put into the hoop. The hoop for a ten-pound cheese should be about eight inches in diameter and ten inches deep. It has neither top nor bottom. It is placed upon a smooth board or a bench, and the curd is pressed down into it with the hands. When the curd is all loose, a cover is placed upon it, and the hoop is pub ander the lever, which pressery little pressure is required, ind this only until the curd has become solid enough to keep its shape; 24 hours in the press is quite enough, the cheese being turned twice in that time. The cheese is then taken out and the outside is rubbed with butter and wrapped in a cotton bandage, the edges of which are turned down on the two faces for an inch or so. The cheese is then placed in a cool room or cellar, and is turned every day for a month after which it should be turned once a week for another month, when it is fit for use. very nice cheese for imme The milk is curded made in smaller quan ines. mentioned, but as soon as the curd is set it is dipped out and put into moulds 6 inches in diameter and 3 or 4 inches deep, resting upon clean straw, through which the whey drains off on to the board under it and drops into a pan. The moulds with the curd in them, are turned daily, and in 3 or 4 days it is firm enough to be turned ou of the hoop on clean straw, when it is sprinkled with salt and turned daily for a month, whe the cheeses may be put into a cool cellar to ripen for a week or two longer, and are fit for use. Skimmed milk cheese made in this way are very well fand and village stores when they are made well.
An Illinois farmer thinks that every farmer should do something in the line of experimenting and report the results to his agricurmers paper. We might say that the nth than all the lready do more of this in a year. There are thousands of farmers who put more confidence in this sort of experimenting than in that controlled by legislatures. If farmers would learn a little more of the art of experimenting and report their results in the way above men tioned, they might save millions of dollars squandered by governments for experimenenepurposes,

## Ghe Dairy.

## Gambling with the Weather.

 by prof. l. b. arnold.The spring has been unusually favorable for giving grass a strong and healthy start. It is not as far advanced as it often is at this date. The weather has been cooler than usual over the whole face of the counry, but thas quite even, and ho the condition of winter wheat. Both have now made an excellent tand. Though the temperature has been too low to push grass forward rapidly, it has neither been stunted with drought nor frost, nor flooded with excessive wet to make the ground so hard and clammy as to interfere with its future growth. A very wet spring is pretty sure to be followed with a feeble growth of grass afterwards. Excessive drenching of the earth in spring with heavy rains, settles the soil together so compactly that it cal hold much moisture, and with a in do such a hard following, it bakes, as seriously check the later growth. Less moisture in spring leaves the ground in a more friable, light, and porous condition, so that it holds water like a sponge without appearing wet, and retains it with much less evaporation than when harder and more compact. The amount of rainfall has been just about enough, over most of the dairy districts, to keep the grass and ground in good condition, making the prospects now for a good season for grazing very flattering. If the sea son holds out as it has begun, pas and the dairy flush and meadows very heavy, and thaly large products of the season Though it a fretelling wiggins to the contrary notwithstanding. About three years out of every five a evere and protracted drought occurs during the middle of the summer through all th Northern States, and the southern part of Cana da shares the same fate. Farther north it not so bad. The seasons are a little shorte between spring and fall, and showers in the summer are more frequent and to tely even there it is often quie to
having good pasture all summer. In furnishing summ follow one of three courses. The first is to turn out so much land for pas the that the excess of grass, above what the herd eat, grown in the fore part of the season while the ground is moist, will be sufficient to carry it through the season when it is too dry for grass to grow. A second method is to nish a range of pasture that will just supply the herd in the best of the seasol, summer, and the weather will be favars to be unfavorhalf starving them in let into the grain fields able, until they a third custom is to supply or aftermill the grass is expected to fail, and grazing enend on soiling crops to supply the cows thill they can live wholly, or in part, upon a revival of pasturage in the fall. Each course has its advantages and disadvantages. The first can only be tolerated where land the West value, as in the new setlem" prevails, or where
land can be had at government price, or a moderate advance upon it-or in other words, where the interest on the investment in extra land is less than the cost of labor for producing the same food on less land. Exclusive pasturage cannot be anorded where land is is gh, and the west as the price of land advances. It is not much followed in the better dairy districts either of the States or Canada, as it requires more capital than dairymen can command. The second course is the popular method. A majority of dairymen adopt it. Everywhere we see pastures stocked with just animals enough to keep the grass down till a dry time sets in, and then the cows shrink down to diminutive yields, and loud complaints about the weather follow. The extent of the practice is evidenced by the fact that when anything of dll over the country and the loss is heary. It the third course-grazing spring and fall, and soiling in midsummer-was followed, a drought even a long one, would make little or no im pression upon the quantity of milk. I saw a good demonstration of this eleven years ago. I travelled some sixty or seventy miles along the valley of the Mohawk River, about the firs of September, and spent several days in visiting farms and cheese factories bos a drought in ent of events. There had and August, and the growth of grass was uly and August, at-still, and the consequence was that the receipts of milk at the factorie were reduced to thirteen pounds to the cow a rule. The cows were dividing their scanty rations between their milk and flesh, and were losing in both. This was general all throug that valley, so noted for its leading positio in the world of dairying. Had the practice of providing green crops for the customary dry time in the season been general, no such ruinous shrinkage could have happened. Bignt the great body of armers it was so all over the land-as as was their custom, little or State-paration for the drought, although such no proughts were customary. Harris Lewis was the only one I found who had foresight enough to provide for the emergency. He was doing as he had been doing for many years, soiling his cows with orchard grass, and they were giving almost double the quantity of milk that other cows, naturally just as good as his, were giving at the time. Alchoug othing in lasted two months they naral decrease due to distair mess the rest of the community were mourning over their losses, and growling about the weather, Mr. Lewis was happy and making money. He was getting a full yield of milk, and cheese was high, because the crop was short. His milk at the time was costing him less per 100 than it was costing his neighbors. The cost of soiling was less than the value of the excess of his milk over theirs, and he had considerably less land involved in the keeping of his cows than they had. made good use of the fall feed, while full flow, made good use of the fall not rise above their
the starved cows could not the starved cows
diminutive messes, no matter how good the feed might afterwards be.
The number of dairymen who employ mid
summer soiling is much greater now than it was then, but it is lamentably small still, and smaller in Canada, so far as my acquaintance extends, than it is in New York. Nothing would contribute so much to advance the proits of dairying as a universal custom of preparing every year for maintaining a full flo wet or dry, and it seems a sad lack of intell gence and common prudence to omit doing so No matter how promising the spring may be no dairyman can afford to stake the income from his cows on the uncertainty of the season. It is equivalent to gambling with the weather, and the weather beats four times out of five, and it is a needless risk, because the production of soiling crops will pay their cost for winter-use, if not wanted in summer.

## London Cheese Association.

The first meeting of the London Cheese Asso ciation for the present season was held in the City Hail on the 17th ult., a large gathering of able cheese has already been manuf. Consider several factories offered lots for sale. Lond market promises this season to London occupy first place among those of the Province The following were elected officers of the Asso ciation : President, Mr. John Wheaton; VicePresident, Mr. James Creighton; Secretary Treasurer, John A. Nelles ; Board of Directors, L. H. Richardson, Strathroy ; J. W. Scott, Elgin ; B. Wood, London township; J. K. Little, of Lambeth; L. Cleverdon, Strathroy; R. Boston, Melrose; J. S. Pearce, city; James Carmichael, London township; M. Weliington, Vyner P. O.; A. Vining, West Nissouri; G. J. B. Lane, North Dorchester.

Don't let your cows drink from stagnant pools.
Of course there is money savel by feeding a cow below her capacity, but then this kind of occur in dairy farming. occur in dairy farming.
Professor L. B. Arnld says that the milk supply of Rochester is excessive in water and defective in cream, largely on account of free use of brewers' grains and glucose mea
Prof. Sanborn, of the Missouri Agricultural College, claims to have proved by a long practice that corn fodder has a practical feeding value of two-thirds to three-quarters that good hay.
Several shipments of Canadian cows have been made to England, and have proved a pro fitable investment. It is said that the English like the Canadian cows very much. Canada is them very them very much, Why can't every
learn to like its own cows very much?
Professor E. M Shelton, farm manager of the Kansas Agricultural College, has handled studied them carefully during many years When asked which is best he admits that he would be "sorely puzzled to tell." Each has sterling points and counterbalancing weak nesses.

## The Tharm.

## Weeds.

A weed has been defined to be a plant out o place The more out of place, the more noxious the weed. A plant when placed under the best conditions for development, becomes a weed; whereas under other conditions, having less
tenacity of life, it may be regarded as a whole tenacity of life, it may be regarded as a wholeome herb. Indeed, most all our so-called are whoses, wor in a succulent state, most nutritions gras tok. some of our -in other words out of par nated weeds. A plant frequently ceases to be a weed when we understand its properties But, whatever their virtues may be, they must all be branded as robbers, and should be summarily dealt with accordingly. Farmers have tried every art tending to their extermination, and they can be taught very little in this respect; but very few have studied the art of prevention, which is indeed the only safe remedy. A fruitful way of spreading weed seeds is when the tailings of winnowed grain are cast into the barn yard, and the manure spread on the field before it is properly fer quently contains pestiferous home raised grain is too frequetly , indeed No wonder good farmers diserrag their attempts to keep their farms clean in the wind, the birds, and the threshing ma chinery from their reekless neighbors increas the terror of the scourge. Remove the cause If this advice were more strictly followed in stead of continually warring agqinst the effect, the enemy would be routed more expeditiously. Seeding down will usually exterminate the least pertinacious kinds of weeds; but seeds that mancy cannot be destroyed in years of dor mancy cannot be destroyed in this manner by tillage, and then destroy their germinatio The practice of inverting the soil so frequota is an egregious blunder. It should be under stood that stirring, cultivating, spudding, or any method by which the weeds may be preA plant without ring to leaf, is more efficacious. acid of the atmosphere will soon die; but when the roots are large and tenacious of life, they should be collected and burnt, or composted with lime. There are economical me in doing destroying weeds-just as much so as in doing anything else. Commence the experisoiling crop. If this is frequently cut some only will the weeds be destroyed but, not tings will make wholesome food for stock. The practice of cultivating crops in rows and of summer fallowing for the purpose of destroying weeds, is too well known to require comment. There is no royal road to weed destruction. Weeds always being in their natural element both with regard to soil and climate, it is natural to suppose that they take away food and drink from the cultivated crop. They plants, and the chemical constituents as other these constituents is a condition take up noxious existence. This is the chit belli. With this fact in mind, it will be easily
seen why roots, especially mangels, exercise
beneficial influence in the destruction Mangels very readily take up all the weed tuents necessary to their development, so that in this respect they fight the weeds with the latter's own weapons. If farmers would stnd a little botany, at least so much as to know what weeds are annuals, biennials and perennials, also the effects of specific manures in the destruction of weeds, they would find it easier to destroy weeds with their heads We with their hands
ernment took the see that the Ontario Gov ernment took the matter in hand at its last
session. A bill was passed cipalities, on petition of fifty or payers, to appoint an inspector whose remn neration they are intrusted to determ The weeds specially enumerated are the Cina dian thistle, the ox-eye daisy the wild oat the rag weed, and the burdock. It shall be the duty of such inspector to notify, in writing the owner or occupant of land containin noxious weeds, or in case of railway land, the nearest station master shall be notified, to cut or destroy such weeds within ten days, notice to be given not later than July 10th, or earlier if fixed by the by-law. It is to be hoped that whole neighboe srictly enforced, so that suffer from the farmers.
A meeting of the Association of Ayrshire Breeders of Canada was held at the office of the Council of Agriculture, on 30th ult., in Montreal, Que, and was largely attended. Mr. Wm. Rodden, of Plantagenet, presided, and Dr. Geo. Leclere acted as secretary. After
discussing matters connected with tion, the election of offed with the exhibiwion, the election of officers was proceeded
with, and resulted in Mr. Rodden being elected president, and Mr. Jas. Drummond, of Petite Cote, vice-president. The following committee was also appointed :-Hon. Louis Beaubien, Alex. Somerville, Wm. Rodden, Jas. Drummond, Thos. Irving, Thos. Brown, Robt. Ness and Jas. Henderson. The committee was authorized to publish an Aŷrshire handbook or Canada and to obtain an act of incorporation.

Disease Among Pies - A farmer in Puslinch reports a strange disease which is killing off he young pigs in that township. He has lost aeighbors have been deprived of whole litters. In al. cases the animals were five or six weeks Id and seemingly healthy, when they swelled p about the throat and died suddenly.
The Annual Industry Bill has been passed by the United States Senate. It is under the control of the Commissioner of Agriculture, and provides for the establishment of a bureau whose chief shall be a competent veterinary surgeon, who shall investigate the condition of domestic animals, and report on the causes of contageous, infections and communitive diseases. The staff is not to consist of more than twenty persons. Two practical stock raisers mals during transport on the caring of ani
 ties, to convey cattle aftlicted with disease. ties, to convey cattle aftlicted wi
The sum appropriated is $\$ 150,000$.

THHE FARMER'S ADVOCATEE.

## Improved Draught Equalizer.

 The engraving represents a draught equalizer for three horses, so constructed that the draught is direct, and each horse exerts a like draught. The arms, A C, are fastened to opposite sides of the tongue, and the pivots in their ends are at equal distances from the tongue. To the free end of the arm, A , is pivoted a double tree, B, 0 ormen which a single tree, , is angle tree, $F$ is held ad justobly by a pin which is passed through a justab on the single tree and through one of a saries of holes in the end of the double tree. The double tree is pivoted about two-fifths of its length from the outer end. To the free end of the arm, A , is pivoted a double tree, D , on the outer end of which a single tree, $H$, is held by a pin passing through a clip and one of a row of holes on the end of the tree, D. The inner end of this double tree is connected by loops E , with the midale of the double tree, B . The double tree, D, is pivoted awout one-third of its length from its inner end. The middle horse $n$ the other side of the tongue hile the the $\mathrm{H}_{\text {will }}$ have a compound leverage over the middle horse.By means of the holes in the ends of the two double trees the leverage can be varied to suit conditions. The direct
draught of the tongue is in the centre of the two draught points. To turn, the horse at F eases up while the horse at H pulls, and the turning in this direction is accomplished without the aid of the neck yoke. The device is simpl in construction, and can asily adjusted in varying con

This
This invention has been patented by Mr. John Bowers, of Brôokville, Illinois
Which is the best self-binder, is a question that has been frequently asked us. Ev salesman claims to command the best have had some complaints about the inefficiency there is a likelihood of thin lodged grain, as lodged this year from present prospects, During last year's harvest we had an opportunity of seeing three machines work. Two were working in standing grain and did good work, bnt some of the observers remarked that they could do nothing in lodged grain. We saw a inder made by A. Harris, Son \& Co., of Brantord, Ont. It was working in a field of oats on a side-hill farm near Paris, Ont. The grain was lodged and twisted in every conceivable anner, and laid as flat as any we have seen. The machine went through and through the piece without stopping, and took the crop off the cradle. This was the first taken off with ever seen a lodged grain without stoppage or breakage We do not say that no other machine can equal this, but we say we have never seen it done, and it takes a great deal of talking to make us bolieve all that some attempt to.

increase is often produced at a loss, which can only be justified when feeding for the show ring, or for gilt-edged butter.
Prof. sanborn, of the Missouri Agricultural College, has been making extensive experi ments in this line, and has summed up the re language:
The facts $\begin{aligned} & \text { iven do not determine, nor is it practica } \\ & \text { ble to determine, the exact value of meal when added to }\end{aligned}$







 present Breeders who make growth with less reference
to oot than early maturity and apparaneand and airy
men who sell fancy butter whose quality is affected by nen who self fancy butter whose quatery is asis.
mall factors, will reason from a different basis.
No sharp line of demarcation can be drawn the pasture is flush, and contains a dense foli aged thicket of shade trees, so that the same remarks will apply to both systems of feeding

A bank that will never break-Your soil. dustry has been tried

Importations to be Stopped. We are pleased to see that the cause we hav been espousing for years relating to live stoc importations, is endorsed by calm-headed and independent stockmen and agricultural journals in the United States, notably the New York Tribune. We regard this journal to be one of the highest authorities on all matters pertainin to agriculture and live stock. In a late issue it treats of the subject in the following manner:
"Mr. F. D. Coburn, editor of the Live Stock Indicate objects decidedly to further exposurs of the vast cattl interests of the United States by continued importation from the infected fillds of Europe of argo after ahiplowi, any one of which might rescult in planting the germs o
deadly pestilence among the herds ard flocks of the on tire continent. 'Put up the bars,' he says, and this io
his sound argument: his sound argument :




 the community con
should be heartily-
well enough alone
 or two ago."

## Ominous.

At the last meeting in Toronto of the Board of Agriculture and Arts, the minutes of th revious meeting were read, the Secretary had mitted to insert a resolution of a vote thanks voted to Mr. Weld, and the Secretary was ordered to enter same on minutes. The truthful reason of the omission should be made nown to every farmer. tem "boycotting" is ere also other subjects discussed at tho eti. the live stock intereof the country

Messrs. Woods and Fellis, of Brewster Ont., have purchased a complete set of ma hinery for manufacturing syrup from the Earl Amber sugar cane. The variety is ber. I ripens earlier and is almost certain to be harvested before the fall frosts. The most sal isfactory results have been experienced armers and others in places where this is

Grass - A lazy man's cro
Crude petroleum preserves wood.
Throw all rubbish on the compost heap,

## Agricultural Education.

The accompanying cut represents what we regard to be a model school house for the coun\& Denison, architects, Tor us by Messrs. Stewart a special study of school buildings. The made is only $\$ 1,300$, including blackboard, bell, fences, play sheds, side walk, and all complete. It is ventilated on the most improved plan The walls are of brick on a solid stone founda tion. The roof is painted slate color. The class room is $25 \times 40$ feet, 12 feet high, and will sut about 100 children.
Bared with the whilding is only a mite, comschool suggests model surroundings A model teacher, and model pupils taught modelly The "cramming " business is a crying disgrace to our school system, and any change, having for its object the introduction of more practical modes of teaching, would be hailed with delight. Young children especially should be taught pleasing things, and in orde to accomplish this end a variety of pleasing objects should be presented


A MODEL COUNTRY SCHOOL

much so as the soil supplies all the products necessary for the bodily wants. The boy who equation which formulate and work out an for a cow, or formulate what chemical reaction are taking place in the manure heap or in the soil, need not go any deeper into arithmetic or algebra; and if he can be taught to appreciate the inspiring scenes of those surroundings which his own hands have helped to embellish, antiquity to wander back into the dark ages of up and made more fanciful.
Even the bright youth who has his eye on a profession, or a course in science or in arts, or studying agriculture-a science which has en gaged the attention of the greatest minds the age during the past thirty years ; an art which is of the greatest and most immediate utility in every phase of our well-being, and is engaged in by men of the greatest wealth an engaged in by men of the greatest wealth and engag
spectacles, which will enable them to read at 8. Furnish pupils with well inches.
9. Furnish abunds with well printed books. ducing glare. Let it come from the left proIf the room is narrow ; from both ide is room is wide.
10. Provide for the physical education of school children, and teach them the importance of out-door exercise. Ornamenting of
Country School Grounds.
The grounds of every country school ought to be an exponent of its popils, for it is upon them that the future ornamentation of the whole country mainly depends. Much talk is
wasted about planting trees, shrubs, etc., for the beautifying our homes. Give a schoolchild, as a prize, a cutting to propagate, or sapling to plant, show him how it is to be attended to, and give him another prize if he brings it up better than his mates bring up theirs, and if you literally stre cause of arboriculture than on the subject. 'We the land with hieralus tically around the school grounds, would artis become the admiration of the wh, wighbor. hood, instead of (as is often the case with book prizes) being hidden from the view on a dusty shelf. This would make every boy and girl in the country wish that he or she had a home like that. These prizes could be removed to the childrens' homes, and the parents instructed in ornamenting their grounds.
Feed superior cows to their utmost limit and the result will be a gain ; but if inferior cow be so fed the result will be a loss.
 and the color a pale green. Reddish processes appear on the third and fourth segments, the tubercles on the back being mostly yellow. It ow eats very ravenously, the loss of foliage being
trees.
Inspection Mede ; porous birds are the most natural reinge; but there are also numerous parasitic coaly the long tailed in their extinction, espe dy, and another Ichneumon. fly called Cecropia cryptus, The most practical remedy is to poll the cocoons or pods from the trees in winter and destroy them. The larvae may also be picked from the leaves by hand.
fig. 2.-apple-Leaf aphis. exude.

day appearing after the eggs are hatched will destroy myriads of them.
This is the Latin
plum insect, and corresponds to meaning Saxon word weevil. It attacks almost every species of fruit. It is grayish or blackish in color, has a rough appearance, and is about one-fifth of an inch long. The female lays her one-fifth of an inch long. The female lays her
eggs on the young fruit. In warm weather the eggs on the young fruit. In warm weather the
larva, a small, soft, footless grub, hatches out in a few days, feeding on the flesh of the fruit and boring its way into the core. Its length is about two-fifths of an inch, and is of a bright, yellowish-white color. The grub matures in about a month. The irritation of the grub causes the fruit to fall before it is mature, the larva mater.
ing in the ing in the fallen fruit.
The grub The grub
then leaves then leaves
the fruit,' burying itself in the ground, when it changes into the chrysalis, and from three to six weeks after-
wards the beetle ap. pears, escappears, escap-
ing through ing through the soil.
The most ffectual remedy is to jar the treen,
mall ones with the hand and large ones tapped sharp. ly with a maillet padded with cloth, continuing the process every morning and evening for three or four weeks after blossoming. A large sheet should first be placed under the tree, on which the fruit, should be destroyed. Turning hogs, poultry or sheep into the orchard is a good plan. Burning tar or sulphur under the trees has also been recommended. Spraying the plum trees with Paris green (three ounces to forty gallons of water), when the plums are about the size of peas, has had a good effect. the codling moth.
This is a small prolific and destructive in. sect. It attacks the apple, plum, pear, crab
and peach. Three to four broods appear each and peach. Three to four broods appear each season, the early one appearing about the time
of blossoming. The fore wings are greyish of brown, with variegated spots, the hind ones having a yellowish brown lustre. The female deposits her eggs in the eye of the young apple, rarely in the stalk end or on the cheek, the eggs hatching in a week, the larvae boring into core. They attain maturity in three or five weeks, when the immature apple falls to the ground, the worm generally escaping before this. The larva of the apples which remain on
the tree either crawl down the tree, or spin a $\quad$ it is about five-eighths of an inch long, and thread by which they descend to the ground, from which they ascend the tree, spinning their cocoon in the crevices of the bark, the moth pears only at night. The second brood ap pears only at night. The second brood ap pears the later part they escape before the fruit is gathered, they seek a sheltering place under the loose bark, or other hiding places. Whereever the fruit is stored they will be seen crawl ing around in search of hiding places. The most effectual remedy is to trap the larve and chrysalids by putting a band of cloth, hay or brown paper around the trees, in which they will find hiding places in their ascent. These bands should be examined every week until the end of August, and all the worms des troyed. The wormy fruit should also be take off andian Hortienturist Canadian Horticules
setting lout vessels setting Lout vessels
of whey, filled to of whey, filled to
within two inches of the top, into which they fall, attracted by the odor of the whey.

BORERS. These insects at-
tack all kinds of shade trees, mostly when newly set. The bark on the sunny side of the trunks will be foun dead. Look for the base of the trees. A good pretrees. A good pre
vention is to place a piece of board upright so as to shade the trees; or wrap a hay rope or piece of paper around the trunk. There are various remedies from which farmers may make a selection to suit their par ticular circumstances. Wash the trees spring and fall with strong lye. Wood-peckers will usually destroy those above ground. Coal ashes or lime and ashes heaped around the trees will also be a good mulch, retain ing moisto way is to remove the earth and the cut out the grubs with a sharp knife. The fol lowing compound has been successfully used for destroying the larve of the peach borer To 10 gallons of soft soap add the same quan tity of hot water ; stir in one-pint of crude car bolic acid, and let it stand over night ; in the morning add three times its bulk of water, when it will be ready for use.
THE CABBAGE worm

A great many nostrums have been afloat for the destruction of this worm, but the U. S. Entomologist has recommended a simple and inexpensive remedy, viz, water heated to a meter to test the heat need not be necessary for if the water is too hot it will color the leaves. A little scorching on the outside leaves will do no harm.
the currant worm.
This insect somewhat resembles the gooseberry worm, but the latter has sixteen legs, while the former has only ten. When mature
arches its body when in motion; it has various colors and markings. There are usually two or three broods in the season. The same remedy does for both insects. Apply a solution of inely powdered white hellebore, or sprinkle the dust of the hellebore over the leaves.

## General Insecticide Remedies.

Numerous experiments have been carried on under the direction of the U. S. Commissione of Agriculture, for the destruction of insects which infest trees and plants. The most re oap and whalts have shown that for mak ing kerosene emulsion, and the following receipts will be found to be of great value to gardeners and fruit growers: Kerosene, two gallons; common soap, or whale oil soap, half

movable poUltry house.
of soap, and add it boiling hot to the kerosene. Churn the mixture by means of a force-pump and spray-nozzle for five or ten minutes. The emulsion, if perfect, forms a cream, which thickens on cooling, and should adhere without oiliness to the surface of glass. Dilute before using, one part of the emulsion with nine parts of cold water. The above formula gives three gallons of emulsion, and makes, when ailuted, thirty gallons of wash. The perentage of kerosene may be increased somewhat without danger, and stronger washes may be needed for some kinds of insects. rof. Hubbard, who gives the above formula, doubt that in kerosene pronerly any reason to diluted, we have a nearly perfect remedy nore effective than any other insecti cide in destroying scale insects, and having slight an effect upon the plant as can probably be expected from any remedy with sufficient enetrating power to reach and kill the eggs of these insects." The cost of such a wash per gallon, after being diluted, need not be over a ent and a half. Large trees may require ten ents' worth of the wast for making the work of destruction complete.
In severe cases too much cannot be said in favor of pasturing the orchard, especially sowng clover for young pigs, soil, fruit ard pigs being benefited thereby. Poultry may also be improved in the same way.

## Poulfry.

## Movable Poultry House

## Movable poultry houses are rapidly coming

 into popular favor. We present a cut of one in use in England. It mounted on wheels, with a floor raised high above the ground to form a dry run. There is a set of movable nests at the rear, an outside flap-door with年, a large door with lock for attendant, a small sliding door and ladder for fowls, two shifting perches and a sliding window. Being divided into sections, it can be easily taken to pieces and packed into a small space.
## Sales of Stock.

At the Kansas City sales last week, Mr. M. H. Cochrane, of Compton, Canada, sold 33 Galloway heifers for $\$ 10,030$, an average of $\$ 303$.
$94 ; 26$ Galloway bulls were sold for $\$ 6,685$,
averaging $\$ 256.92$. Two Aberdeen Angus bulls sold for $\$ 605$. The Shorthorn bulls, of which aged \$244,16, and four Jerseys brought $\$ 350$, an average of $\$ 8750$. The Messrs $\$ 8750$. The Messrs. Leonard Bros. sold six Galloway bulls former fetching an former fetching an the latter of $\$ 291$; also two AberdeenAngus bulls, which brought, respective ly, $\$ 250$ and $\$ 350$. Mr. Cochrane has already claimed Tuesday and Wednesday of the third week in April, 1885, for another sale at the same place.

Valuable Colt Sold.-Isaac Garbutt, of Maryborough, recently sold a bright bay colt, rising three years old, $15 \frac{1}{2}$ hands high, well broke, of the roadster class, to James Ingle hart, of Lowvill, Hallou Co., \%.". olt was sired bs rom the United States.

Shipping Horses.-Mr. Wm. Russell ship. ped to Mr. R. G. Reed, C. P. R. contractor, ackkish Bay, thirty horses, all purchased
the vicinity of Guelph, at a cost of over $\$ 4,000$ James Palmer shipped fourteen heavy draught horses bought at high prices, to Lancaster, Pa Still another lot of driving horses will be sen by two American horse buyers on the same day to Pennsylvania.
Messrs. Hodgson \& Co., who have been sev eral days in Peterborough, shipped fifteen head of fine cattle and two span of horses for th Amest-about 150 miles west of Winnipeg Among the cattle, which were all good and in Mr. Joseph Walton, of [North Monaghan, the price averaging \$45, and a thoroughbred, eleven month's calf, bought of Mr, Jos. Redmond, of Otonabee.

Garden and (5)rchard.
The Garden, Orchard, \&c.
Every effort should be made to encourage the growth of newly planted trees by frequent watering, if dry weather prevails-by applying liberal mulches of any old litter of any descripto stake the trees so as to prevent any swaying to and fro by the wind. The early part of June is a good time to plant young evergreens from the woods or swampy places. All kinds, pines, hemlocks, cedars, etc., thrive well if planted nows the main thing is to see that the have the root, dipped in thick mud. The proper distance to plant depends on he size of the
young trees. One young trees. One foot apart in the bout the right about the right sizes, and rows two feet apart. Evergreens thrive better by being planted close at first, taking care to thin them out as th grow larger
Young grape $\begin{array}{rr}\text { Vines } & \text { newly } \\ \text { planted } & \text { should }\end{array}$ planted should
only be allowed o push two hoots at first, and then finally emoving one, eaving but the ne straight cane, which should be tied up as the growth progresses.
This is the month that insects are most troublesome, and the careful gardener will need
 took sharply after his numerous foes. Helle $\mid$ plant them. Cool, shady corners, where noth- $\mid$ from the apples. The cider press of which we bore, lime, London purple and Paris green ing else will succeed, will be found a capital needed.
Currants and gooseberries will have worms on them. Dust them with hellebore early in the morning before the dew is off the leaves. If done in time, one application will generally
clean them out. Paris green seem to be the clean them out. Paris green seeme to be the only effectual remedy against the attacks of the curculio, there being no fear of any danger reater, as such very small quantities of the Leading practical horticulturists now recommend this plan: A barrel of water in which a tablespoonful of Paris green is dissolved is placed in a wagon and hauled from tree to

by hortus. | $\begin{array}{l}\text { pines, hemlocks, cedars, etc., thrive well if } \\ \text { planted nowes the main thing is to see that the }\end{array}$ | $\begin{array}{l}\text { plants, besides having a nice effect. } \\ \text { Persons fond of ferns will find this the best } \\ \text { roots are kept damp, and when planting them, }\end{array}$ |
| :--- | :--- |
| time of the year to make selections and to |  |

tree, as needed; the water is forced on by using a small hand pump, which may be procured for the purpose from the hardwarem or seeds. This is the time to gather elm and maple seeds. These two important and valuable tree bloom and ripen their seeds early in summer, and about the same time. From about the fifteenth of June the seeds begin to ripen, when they should be gathered and sown like ordinary Flower beds should
Flower beds should be always raked or stirred up after showers ; this prevents the soil
me of the year to make selections and time of the year to make selections and to

cider mill.

Cider.
The manufacture of cider in Canada does not receive that attention it deserves. True, there are a few factories "scattered herezand there over the country, but, as a rule, these estabp, consequently a great portion of the juice is ft in the pomace and some frmers have mall hand presses, but the making of cider by this latter process is both slow and tedious. In many localities we have seen the ground liter ally strewn with the earlier varieties of apples, which, if not eaten by the sheep and hogs, were allowed to rot, whereas if there had been cider factory within a reasonable distance, the apples that were then wasted would have been valuable. There is always ${ }^{\text {a }}$ good demand for vinegar, and vinegar made
from cider is of from cider is of ity. As an apple growing country Canada is unequalled, but excepting selling for home con. sumption and a small export trade, comparatively little is manufacturing our apples into cider or vinegar. Our cousins in the States are more alive to the importance of the industry than we are. They extensively carry on the trade, even ship. ping large quanbulk by the car load for that purpose.
In America the most im. roved machinive an illustration is the one most extensively sed ; it is made by the Boomer \& Boschert Press Co., of Syracuse, N. Y., and has since its manufacture completely revolutionized the cider business. It has a kuckle joint press, and by its great power extracts more juice from the Wme amount of apples than any other device. e understand they are made in several sizes, 00 barrels a day. This firm supply an entire outfit for a first class cider mill.

We furnish free specimen copies to those wishing to obtain new subscribers, together with blanks for subscribers' names and a printed return envelope. Send for them,

## © ditar's Piary.

Don't use animals for breeding which have prominent defects, especially when sire and dam have the same defects.
In-and-in breeding is more injurious where muscle and spirit are required in the offspring than when fat is the prime object.

The greatest profits in farming are made by raising good stock under good management, and the greatest losses are sustained by raising bad stock under bad management.
English experiments made with manure protected from rain and heat, compared with ma ure left unprotected, have shown that th former produced four tons of potatoes and foureen bushels of wheat more per acre than the latter.
If it were not for the chemist the human race would soon become extinct by means of the adulteration frauds. It is wicked enough to adulterate food for plants, but when human a becomes poisoned there is cause for alarm. crease the army of analysts.

If you have a good bull that is no reason why you should let him serve all your cows, specially if you have a raried stock; he can' be good for all purposes. By doing so you may ave a few dollars in one pocket, but by not angin the best use of your neighbor's bull, you may lose as the other pocket.

Dr. Salmon, of the Department of Agriculture, is of the opinion that abortion in cows is due to two classes of causes. 1. It may be caused by improper food, by mechanical mishaps, by standing in a wrong position in the table, etc. 2. It may also occur in a form that is contagious. In this form, daily disinfecting the stable with a 1 per cent. solution of sulphuric acid has been found useful.
The farmer's conception of manures should be changed. Instead of saying that farm-yard manure is good for this and that crop, or that certain artificial fertilizers are beneficial or injurious for this and that crop or soil, he should say that such and such a field or plant would be benefited by nitrogen, phosphoric acid or potash, as the case may be, and it would be ents predominate

Feed your calf well, especially if you want to make a prize animal of it. But good feeding is one thing and stuffing is another ; bad feed ing is still another. Of all these the gorging system is the worst. Everybody knows what foolish thing the calf is. It will guzzle through sheer obstinacy. The milk curdles in he stomach and enters into decomposition. The unwitting owner curses the calf and all the reed-everything, in fact, except himself. It mean gorging; it means the proper quantity of the ration fed in sympathy with the percentage of the different nutritious elements contained in the food. It is moderation that builds up the prize animal, not excess.

Don't buy a pound of artificial fertilizers til he best advantage.

## ©orrespondence.

The quantity and quality of milk and butter are influenced by breed, food and management, but breed influences the products more than food.
Our natives are not model cattle becanse they have not been bred for any special pur pose. However, they have strong leanings towards the dairy.

The flesh of young animals which have been uninterruptedly well fed has better flavor and nutritive quality than that of older and irreguarly fed animals.
The maturity of grade steers is now a year earlier than it was ten years ago. See what can be accomplished by a knowledge of the principles of breeding.

It is better to keep the cattle in small pasthes, changing them frequently from one field arge pasture continuously

Do not forget that swine require green food, other animals. If you do not wish to turn hem loose feed it to them in the pen. That hich they get in ordinary "swill" is someimes not enough.
In 1882 the Spanish stock of cattle shipped from Florida averaged $\$ 15.05$ per head ; Shorthorn grades exported from New York in the same year averaged $\$ 99.72$ per head. Those figures show the value of improved stock.
One acre of well cured meadow hay will keep cow five or six months in winter ; she will require, on an average, about three acres of he soiling system will support her all the year round.

Worth remembering.-A good cow is as asily kept as a bad one; a rich fifld is as asily tilled as a barren one; good grain is as asily marked as "chicken feed;" good animal and vegetable products are as easily masticated ad digested as bad ones.

In 1883 Canada exported to Great Britain 55,625 head of cattle, and 114,352 sheep. So osily this trade is active the Dominion will ereal crops, especially if our export trade in tore steers and cows continues to increase.
As the casein in the milk is always a contant percentage, it is evident that foods which crease the quantity of milk are the best for On the other hand concentrated foods should efed when a large yield of butter is desired.
A Connecticut farmer kept an account with half an acre of onions, and his books when closed showed a clear profit of $\$ 249.95$. The mounted to $\$ 101.45$. The manure applied was tobacco stems, superphosphate and wied ashes, costing $\$ 36$. The half acre yielded 502 bushels of onions.

Notics to Corrbspondants.-1. Please write on one side of the paper only. 2. Give full name, Post-office guarantee of good faith and to enable us to answer by mail when, for any reason, that course seems desirable.
If an answer is specially requested by mail, be enclosed. Unless of general interest, no quastions will be answered through the ADVocirs, as our space is very
limited. 3. Do not expect anonymone comer limited. 3. Do not expect anonymous communication
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marked "Printers' MS." on the cover, the ends being open, in which case the ejpostage will only be lo. per 4 ounces. Non-subscribers
munications to be noticed. unications to be noticed.
able information solicited, and if need, will be liberall paid for, No notice taken of anonymous correspon ence. We do not return rejected communications. He do not hold ourselves responsible for the views of

SIR,-I tried the iodine you recommend ond Sire, -1 tried the idine you recommended on lumps
three of my oxen, and found it a perfect success. One of my cows has a sore foot; it seems very tender on the hell, and is a little swelled, and there is a raw sore
near the centre of the hoof which discharges quantity of matter. The hoof seems to be slowly decaying. What is the best cure? 2.-How shall I treat a cow that calved a week and has not cleaned? 3.- Last year I
tried to grow black seed onions after taking the seed off tried to grow black seed onions after taking the seed off
newly broken prairie, but they proved a failure; thes started to grow a little, but are proming up nicely hhis
spring. Is it any use of me trying to cultivate them. MCGREOR.
11.-For cure see answer to $\mathbf{T}$. W. in this complaint seems to be foul in the foot. There is another disease with similar symptoms caused by ergot in the
feed, but foul in the foot is caused by standing in stables. In the early stages the two diseases are diffcult to distinguish, but if allowed to run on the mortification caused by ergot may extend over a large portion of the
limb, and cannot be permanently cured without limb, and cannot be permanently cured without changing easily beoome frozen, and when the cattle lick their feet, the affection may easily be mistaken for foot and mouth disease. 2.-The cow should have been attended to and a half of raw linseed oil every four or five days, and laxative food. 3.-Black seeds will thrive as well as any others when sown in a sandy or clay loam soil with a firm
bed - -
we certainly would not vise breeding from a bull purchased at the Model Farm nd suspected uf being affected with Tuberculosis. The name and post office address of our correspondent only too glad to institute legal proceeding waild be even for telling the truth.

SiR, 1 I. I have a mare colt two years old with a rupture

 grasses, or should it be sown alone ? 3 . Are there different
Kinds oth enusian Mulberry? Some aro very dean and
some very cheas, ranging from fitteen cents to one dollar apiece.
Lctos P. $o$.
(1.- Your colt can be cured by an operation. Be sure
and have it performed by some skillul reteriny Lucerne being deep rooted, requires e deer porys. 2.and may be sown any time between April and August. If required for green fodder, it may be sown with othe fodders, such as rye, oats or barley; for pasture it ma about two weeks earlier than red clover, it should not be mixed with timothy or red clover for hay. Pulverize th soil fine. 3.-There is only one species of Russian Mul berry. 1
In order that one may read a few consecutive numbers ofthe FARMBR's ADvocats, and thus learn its value, we
offer a 3 -months' subscription for 25c. Payment of 750 offer a 3-months' subscription for 25 c . Payment of 75 c .
in addition before expiration of 3 months, will secure ih
balance of the eear's subscription.

June, 1884
THE FARMER'S ADVOCATE.
 instead of posts for fastening and supporting wire fencing.
and your essayist mentions that staples will not materi: ally affect the trees. Now, is this a fact? 1 have masten-







 mation, and should hithe to ir
gaientificimen, is wheter
trees will injure the trees.
Nova Scoris.
DDriving nails into trees does not ordinarily injure them.
We know of numerous instances in which nails have been We know of numerous instances in which nails have been
driven into fruit trees under the delusion that they would be a remedy against worms, but the trees have not been
sensibly affected thereby. Our correspondent does not sensiby affected thereby. Our correspondent does not
inform us what sort of trees has fallen a victim to his experiment. Some trees may, perhaps, contain some organic acids which may form injurious oxides of iron
with the nails, but we don't know of science having thrown any light on the matter.]
Sik, Will you please eive this a place in your paper
About gixty y years ago, in thi frst settin yount of bear.
Creek, there were but few setiers along the Creek and



 There wre webs ofs orrms on every fruit bearing ree,
Then to the wollo herry, and now the fruit is nealy
failure. Does anyone think there is $a$ remedy? Re. Tailure. Does anyone think there is a remedy? Re-
member that at ertain neasons of the year the insect can
fly, and if one orchara weer left overgrown with moss and

 tallen fruit ootherrs say they wont have the hogs turned
into their orchards to root up their clover, but 1 can tell
what I would do. I would turn the hogs in, plow in the





 mendsevery good farmer to take the ADVOCATE. I would
say it tould be well in all bad farmers would take it and
become good farmers.
J. D. Lether, ONt.

 ing this to be a good way to turn bones to manure,
made arangement for buyng alarge quantity and fel
quite enthusiastic over the prospect of getting so quite ent tusiastic over the prospect of getting so good
manurust and so chearly
this spring.
Judge of this spring. Judge of my chagrin when 1 saw your re re
marks on paje 80 of March number for the present year
where one of your correst



Many farmers have also been successfull in reducing bones
with ashes. If our March correspondent has not been
successul, he must have neglected Instructions. If the
ashes
ashes are bad, or the instructions not tollowed, it may
take six months or more to reduce them. If the bones
are not all reduced, they may be put through a second
proo process, or termented with fresh stable manure. 2. Bones expeditiously, but the process is expensive, the acid cost-
ing four to ing four to seven cents per pound, according to the quan-
tity required. Pulverizing the bones would be better and
chean cheaper; they will soon become soluble in the soil. The
soluble form reverts to the insoluble in a few days after application, especially where there is an excess of lime in
the soil; hence the superiority of fnely grous bone If it is said that swamp muck ts not a good absortert, the meaning is that it is not good compared with other
absorbents absorbents. For example, dry manure and tanned bark
will absorb many times more liquid than muck, but as
this this information is of little practical value to most farm.
ers, it may be poses, is an excellent absorbent, being cheap and alwaye
procurable arocurabe aboad dust, or any form of dry earth, is abso
a good borbent in this sense. Please let us hear the result of your experiment.]
Sirg, My method for destroying wild oats is to sow
barley as early an possible, so that it will get ripe before
the ofots. the oats.
WALERTRN, ONT.
 She has a soft tail thethat is all I can see wrong.
the caus and a cure?
Calupgelurord. The cause and ac
CAMPBELLORD.
[The cow's soft
[The cow's soft tail has nothing to do with the quantity
of milk that she gives. Give her one quart of raw lineed oil once a week as a drench. Put in her feed every sight about two drams of nitrate of potash and a tablespoonful
of sulphur.] of sulphur.]



 IGive your cow a dose of purgative medicine (about
three quarters of a pound of salta) ; week for a time, and dress the lump with iodine oint-
ment ever ment every second day, after cutting the hair short.
Give her every night in feed two drama of nitrate of potash and one dram of iodide of potassium. 2. The
is.a cocoon of the Cecropia Moth. See page 169.]
$\mathrm{S}_{12,}$, Please tell $\mathrm{me} \overline{\text { what }}$ kind of soil strawberries
thrive best on ; also the mode of preparing soil for fall
 [Strawberries thrive on most any well.drained soil, but
a sandy loam is specially suited for them.. Dig or plow, then spread at least three inches of well. rotted barn-yard
manure ; if you have not enough of this, bone.dust is usually the best substitute. Dig or plow again, mixing
the manure with the soil as thorouyhly as Plant from pot layers; the sooner you plant the larger
will be the crop. If you plant in beds put the rows fitteen inches apart each way; otherwise make the rows
two feet apart with fifteen inches between the plants, presing the plants firuly with the foot. before snow
mulch with straw or most anything else of the kind, two or three inches deep, covering the plant and soil com-
pletely. So much depends upon soil, climate and other pletely. So much depends upon soil, climate and other
conditions, that it would be diffifult to say which is the
best kind. There are several very excelient varieties best kind. There are several very excel:ent varieties
Howerer, for your purpose we think the Jersey Queen is the best; ; but you might also try Longtellow Improved,
Prince of Berries, Bidwell, or Nectar, Prince of Berries, Bidwell, or Nectar, if you want
variety.]


 IIt is quite regular for the Board of Directors to refer any particular question to a committee, and not ony
regular but judicious to do os.. If our correspondent
neans by the word "dismiss" to remove from oftice we say most decidedly they have no power to "dismiss a part of their Board and have the business done by a
committee." Instead of this the Agriculture and Arts Act makes provision for filling vacancies when they occur. 2. We are not aware of any.]

Sir, -What is the best treatment for contracted feet
PRovidsker.
W.
D. [Have the feet well pared down and the shoo put on os
that it will heve foot in hot water a tendency to spread the foot. Soak the of either bran, flax seed, or boiled turnips every night for a time until the foot gets softened ; then appply a
cantharidine blister around the coronet (top of foot once every two weeks, and grease the part blistered the
third day afterwards, while the third day afterwards, whe the feet are blistered it
would be well to stuff them meal.J
To J. McP.-Write to T. Goold \& Co., Brantlord. They have the most extensive factory for the mannutacture hives are considered the most popular. We prosume
they oould ship you all you would require any dat they could ship you all you would roquire any day. Their
catalogue will give you information about other appliances.
SII, -1 I forward you an ingeot I I would like to know.
something more about, aloo grub in leat. Ido
fill bo choorfully, because I know you interest yourself gro groatly 1 ln
antyhing that may be instroutive and a beneat to the
truit












 many other expenses in connection. Every grower ha
the same complaints in a more or less aggravated way. Quvksytox, May 20, 1884 .
[The in
[The insect belongs to the genus Hymenoppera. Its.
name is Dolerus apritis. The lavrox feed on willows. As
far as known, it is not in jurious to fruit trees. Sir, -M
 to get, and $I$ determined to try two wires. 1 put $m y$
posts two rods apart. (I was only fencing against ant poots
Atter ine fence was up the cattle belonging to neiphbor
ing hal-breeds wed Any hair-breod wosts and spread the wires sufficiently to
tween two pont squeze through. I then got some small pickete, abou
inches in diameter, and four feet lonk (the height of the



 with a heayy cold in her head, and frequent vischarge
from the not risis? $1 t$ seems to distress her very much

 ing or the obbblers for treadi
TVILLE MuNXTII, Man.
[1.-Keep the nostrils washed clean and use the pine
tar ; we have found the tar the best remedy insuch tar; we have found the tar the best remedy in such cases;
give her sulphur in feed along with salt. She will get give her sulphur in feed along with salt. She will go
better when turned to grass. We do not think the affec tion will disturb the usefulness of the turkeys or hens



The Souseholi.
An Ounce of Prevention. Our great epic poet says: "Love hathits seat in reason and is judicious ;" and though this may seem a rather cold statement it is in harmony with the facts. The contract of marriage sense, on the fitness of the two parties to contract with each other, and on their probabl ability to carry out their contract. Some or ples seem wedded after the manner of one of Dickens' characters, who in passing a church exclaimed, "Halloo, here's a church!let's go in!" On going in, he put his hand in his vest pocket and exclaimed, "Halloo, here's a ring! let's get married !" Of course such marriages can be nothing but a lottery, with the likelihood of drawing only blanks.
In matching horses we are careful that in height, gait, outline, movement, they shall be alike, so that they can pull equally and help should yoke before a carriage an elephant with a goat, or a camel with a donkey, or a cow and horse, or a Shetland pony with a Clydesdale, would be deemed an idiot or a lunatic. But we find matohes among men and women even more incongruous than these would be among animals.
Not even Eads or De Lesseps would undertake to make the tributaries of the Columbia and Mississippi flow together. They are on different slopes and naturally flow apart. Nothing less than a great upheaval which make them flow together. Now in the happy marriage the two souls of the wedded pair love first the same things and then love each other, or first love each other and then love the same things. The intense heat of their love fuses their souls and their lives into one. The graet slopes of their lives run in the same general direction, so that streams running down those sopes inow easily and naturally together and interchanges are readily made. St. Paul expresses the whole thing when he says, "Be ye not unequally yoked together with unbelievers: for what fellowship hath righteousness with light with darkness? And what concord hath Christ with Belial? or what part hath he that believeth with an infidel? and what agreement hath the temple of God with idols?" "Fellowship," "communion," 'concord," ' 'agreement," must be between things like or "like in difference."
The eagerness of mothers to dispose of their daughters in marriage, to secure for them rich husbands if they can, but at any and all hazards to secure for them husbands, has been the theme of satirists since the oldest of us can remember ; and though the title "old maid" is ot quite such a stigma as it was, yet most ters "settled in life," One would naturally think that this eagerness would be accompanied by a desire and effort on the part of mothers to prepare their daughters for the duties, the responsibilities, the self-abnegation imposed by the yoke of marriage, for the forbearance required, the labors demanded, and the total consecration of self on the hymeneal
altar which both husband and wife must make
if their marriage is to prove a happy one. if their marriage is to prove a happy one. motherhood misses the supreme happiness of life, but there are many wives and mothers who miss this culture, and there are many noble purposes attain idelity and devotion to noble purposes attain the nearest possible to
supreme happiness. Wives who become for the sake of a home, of a support, to such being old maids, and with no aptitude or aspir ation to become "true yoke-fellows" with their husbands, dishonor the name of wife. Mother who reluctantly accept the crown of mother hood and shirk the duties that crown imposes, dishonor that holiest human name-mother.
The Vicar of Wakefield chose his wife "a glossy her wedding-gown, not for a fine glossy surface, but for such qualities as would the majority of men and the is followed by women admire in men only what is admira and cultivate in themselves a "meek and quiet spirit," we shall hear less of unhappy marriages than we now do.

## The Farmer's Wife.

"Oh! give me the life of a farmer's wife, 'Mong the singing birds and the lowing herds, And the clover blossoms white.
The note of the morning's heavenward lark, The note of the morning's heav
Is the music sweet to me;
As the dewy flowers in the early hours, As the gems I love to see.
Oh! give me the breeze from the waving The murmur of summer leaves; And the swallow's song as he skims along, The plowman's shout, as he's turning out His team at set of sun.
his merry 'good night' by the fire-fy's When his daily work is done.
"And give me the root and the luscious fruit, My own hands rear for food; ;
And the bread os light, and the foney white, And tho milk so pure and cood! or sweet the bread of labor is,
When the heart is strong and true, And the blessings will come to the hearth and
home If our best we bravely do.'

## Loosening Glass Stoppers.

## The glass stopper to a bottle often becomes

 so firmly fixed that it resists all ordinary efforts to remove it. Many methods are given, such as a sudden tap with a hard stick, the neck of water, etc. When all these have failed, I have always succeeded by saturating a thread with sulphuric ether, surrounding the neck of the bottle with the thread, and touching a lighted match to it. As soon as extinguished, the cork can be lifted with ease. I have never seen this method in print, and give it, hoping others will be relieved from the vexation of giving up all hope of removing a glass stopper from a bottle of value, or containing valuable drugs, as I have known thisthis discovery in 1880 .
The young man who was kicked out by his sweetheart's father, says, "I had no objection
to the old woman's shoe being thrown after us when the wedding was over, but tossing the old man's boot berore the event
affair, and it hurt my feelings."

Ffamily ©ircle.

## HETTY.

$\triangle$ storr.
(Concluded.)





 This last remark was made with a a cortain gentle do ance, and the dim eyes were turned to me with as aort
ow wistulu hope that 1 maight make some furthor comment,
But 1 had none to make. But 1 had none to mak.
I read the mother's hopes




It was the eollowing night. Hetty had come to pay me
visit: I had been listening to the account of a grand
 with the coming of the summer night, which was byy
apicture done in grass at its deepest, and no black
shate

 Hetty was between the window and me. The perteot
profle showed like a silhouette against the dusky gloom
outside.
" We were talkn thon
 "About mer"
"Yes. Jock


 glender, helplipes

 upona . man's tendernesess than any other wowan could
have. "Beause I am-dififerent to other women?"
 nearerer ties-
Ho mo mant that $I$ ought neverer to marry ?

## The Thibet Dog.

The peculiar dogs of Thibet have frequently been described by travellers, and generally the size and strength of the same have been exag gerated. A very fine specimen of these animal was exhibited at the Vienna Dog Show, picture of which is given herewith. The animal has some resemblance to those Newfoundland dogs known as "Labrador dogs." His long thick, and soft hair lies closely against his body thick, and soft hair lies closels against brilliant, and is not kinked; the color is a deep, briliant,
glossy black, with yellow spots over the eyes glossy black, with yellow spots over the eyes
and light colored spots on the paws. The

the thibet dog.


wrinkled forehead, the small eyes, and hanging wrinkled forenead, the smail eyes, and hanging apper lip give the animal a threatening appearious disposition.
These animals have generally been known a "Thibet hounds:" but this name is not correct for although they resemble hounds somewhat in their appearance, they do not belong to this class of dogs.

The wise gardener never allows any soap suds to be wasted. It is a valuable fertilizer serviceable for small fruits.

## gatinute eaday's gnepartment.

My Dear Nieces,- We are greatly pleased
My Dear Nieces,- We are greatly pleased our young friends, both far and near, in the our young friends, each month we offer a prize. Though but a short time since we began, the letters piled upon our desk each month present such a formidable appearance that we feel almost unequal to the task of weighing the merits of the different competitors. So, dear girls, because 'we have considered some other essay a little more deserving than yours, and have awarded it the prize, do not think that your efforts have been all in wain. Far from it. We cannot do you may write better upon fection. Some of you may wit "if ap first one sun't arceed, try, try again," and yon you don't succeed, try, colors after all. Now, to those who have not yet made an attempt-none san tell of what they are capabo awaken the is made. Such hing which might powers of thougnt, therefore make a thorough search into all the little corners and crevices of your mind, and see if you cannot find some treasures stored away, about which ever you had almost forgotten. Then give your fellow beings the benefit of them, instead of allowing them to rust with time.
That all may have a chance, the householder as well as the young school-girl, we intend varying our subjects. This month we offer a prize of a handsome silver picklecruet for the best method of canning or preserving our common fruits, as rhubarb, strawberries, c , peaches, berries, cherries, apples, peaches, adapted to the fruits. We refer strictly to fruits, and will deal with vegetables in a later number
The prize of a silver napkin-ring, with winner's initials engraved, for the essay on woman's influence, has been Ont. We hope to receive a greater number letters than ever this month; kindly bear in mind that all communications must be in by
the 25 th of June. the 25th of June.

Minnie May.

## A Summer Honse.

Most people who have grounds to adorn, want and freguently build summer houses. The add to the embellishment of any country place besides being a quiet and cool retreat on a hot summer day. Different varieties of climbers and vines, such as honeysuckles, Virginia creepers, climbing roses, etc., should be planted around and trained over it early in spring. We advise those who have not already one of these attractive rustic arbors, to erect one at once,
which can be done at a very little trouble or expense.
He would not marry her because she had nights with But when his wife kept him awake ne had.

## PRIKE ESSAY.

## Woman's Influence.

by miss bertha wilson, hensall, ont. eritage ! What a glorious which has been pronounced "only a girl," and are borne by thought through the varions phases of a woman's life. Daughter, sister ife and mother-who shall measure the spher this tiny life? Who can conceive th hievements of those tiny hands? Pause and urs; it is not only an element of our nature at its principle-a force for weal or woelessing or a curse. We can make it either, but for the effects of our choice we are responsible. A woman's influence over home-life is undisputed. It was a mind rich in noble
thoughts the

cradle moves the world." The influence of mother for weal or woe can not be estimated he is the sculptor who adorns the temple, caving it fit for the in-dwelling of a God, or filled with a rubbish years of toik a "D
"Domestic life its sweetest charm, Home is her platform, from which she speaks the world. It is such lives as Susanna Wes her snatching an hour morning and evening mid the cares of domestic life, to search for trength from the source of all wisdom for the moulding of the diverse characters entrusted to her care; the force of a cultivated mind and heart aided by refinement and personal beauty, concentrated on this home life - and behold the ruits : Grateful thousands testify to its rich munificence. Looking at that woman now, we are inclined to pronounce her perfect, judging from the completeness of her work. Bit her grand result, we do not see the prosaic details.

The name of Forence Nightingale is By onymous with all that is true and pure, yet we now not over what mire she climbed to the heights at which we behold her; we only kno hat our lives are filled with sordid cares and petty vices, that seem to clog the wings ontinual sacrifice of self; she is but a victim mmolated on the altar of her affections. As oon as she becomes a wife, her life, almost her dentity sometimes, is absorbed in her hus band's ; she merges her whole existence in his, taking on an added responsibility for the form and color which she brings to it. Chroniclera ay that Queen Victoria wept when called to wear the crown of England, so intense was her ppreciation of the great work before her, and her knowledge of her own weakness. Is not his the spirit with which each woman should receive the crown and sceptre of a hasban be too rare to W. What alent too precious to be used in gov rning this kingdom, whose well being demands that she spend and be spent in its service? Woman is so apt to neglect the many ways by which she can not only get, but keep, her empire over the heart. No woman likes to lose a lover when she wins a husband. Then let us rally our forces. By all means let us go in for culture, culture of heart, and head and hand. Let us look keenly into our own lives, cultivate each little germ of gool, bring it to per oon, mere till the whole character becomes rounded out to beautiful symmetry. Mind is the motive power. We must see that our mental food is strong and nutritious, fit to sustain the perfect womanhood after which we yearn. Personal beauty is a power for good; "a thing of beauty is a joy forever." A few strokes of an artist's pencil can render a scrap of paper invaluable; some may put labor and expense on a picture and produce but paint hat rer a few strortal are lacking. So a cultivated mind and hac beauty. "Soull is form and doth the body make"- so says Spener; and how many people do we know who might be plain but for the light of a noble soul shining through ! Let us cultivate beauty; it is an added force-the work that is possible is so immense, our individual efforts are so puny. England is judged as a nation by the nations ; but God does not lose sight of the poor human toms. Then, sisters, one and all take courage. "Strive; yet I do not promise

The prize you dream no think to grasp it,
And melt in your hand away;
But another, and holier treasure
You would now perchance disda
Will come when your toil is over
And pay you for all your pain.
Wait; yet I do not tell you
The hour you long for now, Will not come with its radiance banis
And a shadow upon its brow. With a crown of starry light,

An hour of joy you know not.
Is winging her silent flight.
" Pray; though the gift you ask for May never repay your pleadingAn answer, not that you long for, But diviner, will come one day; Your eyes are too dim to see it,
Yet strive, and wait, and pray

## Answers to Inquirers.

Mrs. F. H.-Wishes to know how to cook egg plant. We give two recipes. 1st.-Boil antil soft, and scoop out the inside and season; read crumbs, and fry in hot lard. 2nd. Boil until tender, scoop out the inside, mash ine, and to every cupful add a tablespoonful of cracker crumbs, a teaspoonful of butter, and pepper and salt to taste ; put into a dish for the table; beat an egg very light and spread part over the top of the dish, then sprinkle ith rolled crackers, and lastly spread the re brown.
Mrs. John R.-Your request will be in serted among qu rries .
J. Grant, Ju. - There are many methods of protecting furs from moths. Pepper sprinkled over the fur, and cedar and camphor are all over remedies. But one important thing is to have them securely done up in cotton cloth, and kept in a dry place.
R. A. E.- Pimples on the face show a bad state of the blood, and we know of no better ure than sulphur, cream of tartar, salts, molasses and a little spirits, which any draggist would prepare in the proper portions, and give irections as to the required doses.
A Reader Writes :-Will you let me know paper and and oblige. Eff I gave a yong lady of about seventeein years a present of any thing have Ia claim on her second have she a claim on me third if a young man goes with a girl for some time and then leaves her can she force him to marry forth when a young man escorts a lady home in the evening what time or how long would be proper for him to stop fifth what would be the proper way of asking a ady to see her home
when introduced to a lady should you rise at your feet in speaking to a lady should you offer your hand or not
What age shoud a lady be to get married locked arms and in what way
Ans.-1st. Certainly not; don't entertain uch an absurd idea. 2nd. By no means, and we are sure no sensible girl would desire it. 3rd. We do not know what "going with a girl" means. If it is being engaged we should think the lady so fortunate in her escape of such a life-partner that she would have no desire to use force in the matter. 4th. It depends upon hould leave immediately, neither enter nor hang on the gate, otherwise you might be assisted off by the old gentleman's boot or the family watch dog. 5th. Have you an eseort? or may 1 see you home? 6th. Whose feet? surely you don't mean your own, for their proper place is always on the floor ; certainly you should rise to your feet and remain standing until the lady
is seated. 7th. A lady may marry any time from the age of seventeen to seventy-five, when it suits her convenience or opportunity. The latter age would be quite time enough to marry some men we have heard of. Sth As to your last question, there is no objection to locking good strong padlock layld, and we think a her place we should much prefer the width of the road between us. If "Reader" would in future spend less time on such nonsense and apply himself to his copy-book, spelling book and grammar it would be much better for him, and with great diligence he may in time gain a little common sense.
Elocutionist. - Your question will be entered under queries.
a Constant Reader-Would like to know the cause and cure of warts? Ans - The cause of common warts is not known ; in some cases the blood from them is capable of producing are so apt to disan applied to the skin. They left to themselves. If it is desired to remove them, glacial acetic acid is perhaps the best remedy; it must be applied with a camel-hair pencil till the wart is pretty well sodden, care being taken not to blister the neighboring skin. One or two applications are usually sufficient. Nitrate of silver and tincture of iron are also used.
F. W. wishes to know if it is the moth miller, or the worm which damages woolen goods; does the miller produce the worm or the worm the miller ; and what will keep away these insects ? ANs,-It is the worm that does the is to seek dark places where it may lay its eggs upon woolen suta feathers. It then dies. The egg becomes a little worm which feeds upon wool and spins itself a little grayish cocoon which it hangs by one end in a dark safe place, usually where it has been feeding. In a few days it becomes a small brown grub, and from that it changes in a short time into a miller, winich again emerges from the coooon, and so begins the round again. The only safety from them is to put all woolen goods away in close boxe to sweep carpets often.
querie
Mrs. John R.-Will be greatly obliged some of our readers
poem beginning thus
"Sleep, little baby, sleep,
Not on thy mother's breast
Henceforth shall be thy rest
But with the quiet dead."
They were published in the old fifth reade efore the one now in use Elocutionist-Wishes to know the author the piece of poetry entitled "Darius Gree procured.

## Recipes

Sponge Drops.-Beat to a froth 3 eggs and tea-cup of sugar. Stir in 1 heaping coffeeof tartar and $\frac{1}{2}$ teaspoonful of soda are mixed. Flavor with lemon. Butter tin sheets and drop in teaspoonfuls about three inches apart.

Bake instantly in a quick oven. Watch closely, as they will burn easily.
Berl Cake.-2 tablespoonfuls of batter, whites of 3 eggs, 1 cup sugar, $\frac{1}{2}$ cup of milk, $\frac{1}{2}$ cup corn starch, 1 cup flour, $\frac{1}{4}$ teaspoon of oda, $\frac{1}{2}$ teaspoon of cream of tartar. Drw Drops.-1 cup sugar, 2 eggs, 4 tablespoonfuls sweet milk, 1 teaspoon soda, 2 of cream of tartar, salt, roll in balls and fry in
hot lard. When done roll in sugar. hot lard. When done roll in sugar.
Frirt Puddings- - 1 qt. of flour, $\frac{1}{2}$ pint milk, 1 cup chopped suet, a little salt and 2 be made into a rolly-polly with. This may be made into a rolly-polly, with any kind of a buttered mold with this crust, fill it with berries, apples, rhubarb, cherries or any canned or preserved fruit. Cover with a crust and steam or bake.
Ice Cream.-Made with cream is richer than with milk; with eggs it is better and richer than without. The addition of starch or arrowroot injures.- 1 qt. of milk or cream, 4 to $6 \mathrm{eggs}, 8$ to 14 oz . of granulated sugar. Beat the eggs and sugar well together, put the milk into a tin can or pail, and set it into boiling water; when it boils stir in the egge and let it just come into a boil, then strain and fresh strawberries, lemons, pine-apple, etc.; put it in cold water to cool and then freeze. A very good freezer may be made by using a tin pail with a tight fitting cover put into a tub of ice or snow and salt. Whirl often, and scrape from the sides as fast as it freezes. Frequent stirring makes a fine grain. Less eggs may be used by substituting ono table-spoonful of starch with a little cold milk, and stir into the boiling milk, with the egg and sugar. Boston Gream Murfins.-1 quart of cream, if sour the better, 4 eggs, flour enough for a
thick batter, 1 teaspoonfnl of soda, 1 small teaspoonful of salt. Stir the eggs well beaten with] cream, add gradually the sifted flour, then the salt. Dissolve the soda in as much vinegar as will cover it ; stir it in last. Bake in muffin rings on a hot griddle. Send to table hot. Pull open, butter and eat them.

## Care of Children in Summer.

The hot weather is especially troublesome to young children and infants, and as the little tender creatures cannot tell their pains and
discomforts, they whine and fret, and are thought to be cross and ill-tempered, when they are really suffering. A little care and precaution will tend to relieve them very much. A strip of flannel buttoned about the loins, will be of great service in preventing stomach aches, diarrhea, and to feed little and often, will avoid much discomfort to them. Nursing infants should be supplied often, often; once in thre ahrs is and the mother should be very careful about her own health and comfort, lest the child suf. fer with her. Children a year old should be fed upon milk with one half water added; an excellent food for them is made by boiling a pound of dry flour, tied up in a cloth for four hours, and when cold kept for use as follows:
and water, and boil for five minutes to a thin gruel, add sugar, and give it out when newmils warm. Hot milk sipped from a teaspoon then. Nursing bottles should be kept in a then. of water to which a teaspoonful of soda is added to keep it sweet. Avoid all sour food. Bathe in tepid water every evening, before bed time. Keep one room in the house dark and closed during the day-time, and well aired during the night. It will be cool and fre from flies, and the chil
tired in the afternoon.

## Christmas Eve. <br> Y edgene J. hall.

In an old New England kitch at good old Farmer Ketchum, and his wife The wind without wa
and woeful sound, wailing, with a wild
And the fleecy folds of the drifting snow la
deep upon the ground.
Butchum for the cared Farmer tumult out of doors, or he had foddered other chores;
And snug in the chimney corner in his easy chair he sat,
Silently smoking his old clay pipe and pooring Silently smoking his old clay pipe and pooring
the purring cat.
While plying her knitting needles, his wife rocked to and fro, draming a ream of
Humming a hymn and dreaming a dream of the
long ago
Over the old-time fire place, a rusty musket hung, Chile back in a dingy corner, the tall clock licked away, the sagging farm honse, fast falling to decay.
and
and The knitting fell from th
old man turned about,
He took his pipe trom his mouth, and he slowly
knocked the ashes out,
And after thinking a moment, he said, with a
('Tis Christmas Eve, but the stockings don't hang by the chimbly there."
The woman sighed, and then replied, in a sad and faltering tone:
an' the years have gone,
An' I have jest been thinkin' of a Christmas When the winders were frosted over, an' the ground was white with snow
When we sot in the chimbly corner, by the When our lives were full 0 ' promise, an' the future but a dream;
our folks had gone away
An' we sot an' louked, an' I listened to the whispered words you said,
brother J Benson's store came rollickin
An' a peekin' thru' the winder, saw what was
going on.
Then how the neighbors tattled an' talked all
Till you an' I was married, an' quietly settled down.
"While a-rummagin' through the cobwebs in the garret t'other day, An'a away, ${ }^{\text {a }}$, leetle worn out boots a layin' in a heap,
As they used to lay on the kitchen floor when the boys had gone to sleep.
I looked at the wo
long laid by,

An' leanin' agin the chimbly there, I couldn't
help but cry,
For the faces o' my children came back to me
once more, ${ }_{n}{ }^{\text {once }} \mathrm{I}$ almost heerd the patter o' their feet upon the floor
thought ${ }^{\prime}$ ' their happy voices, an' the leetle prayers they said,
they used to gather 'round me when 'twas they used to gath
time to go to bed
"Of all the earthly treasures we prize in the world below, the fondest are the first to fade and go.
of all the beautiful children that came to our fireside,
The one we loved most dearly was our leetle
girl that died.
Her eyes were blue, an' soft as the hue $o^{\prime}$ the
er eyes were bumener air.
An' bright as a gleam o' golden light were he
curls ${ }^{\circ}$ ' shinin' hair;
Her thoughtful face was white as the flakes $o^{\prime}$
the newly fallen snow,
the newly fallen snow,
Too much $0^{\prime}$ a leetle saint she was to live in
the world below.
How calm in her leetle coffin she looked in her last repose, fairest lily, as pure as a tuber As sweet as the fairest
r'ose ;
An' I can well remember the sadness o' the day, When my heart was well nigh broken as they carried her away.
" The eldest $\mathrm{o}^{\prime}$ our children was a proud an
He was his father's brightest hope, an' his He was his father's pride an' ${ }^{\text {may. }}$. m .
I used to play with his chubby hands an' kiss mother's prith his chubby hands an' kis
I used to play with
his leetle feet, wonder if ever a babe was born more beau-
tiful and sweet ; An' many a night by candle light, when he was nug in bed,
I've patched his leetle clothes, with weary
We hent him away to college-he did uncom-
Till hon went to live in the city, an' married a
cill belle.
Of all our earthly trials, of all our earthly care,
The cold neglect $\mathrm{o}^{\prime}$ a thankless child is the
The cold neglect o' a thank less child is the
His wife is a woman with only high notions in
His wife head,
hhe couldn't

She plays on the pianner, nor works with her
She piays onite hands,
An' she talks in a foreign lingo that no one
understands.
"'The youngest o' our livin' boys I never could
He didn't take to larnin' no more'n a fish to
land;
He was wayward an' hard to govern, not alto-
He was wayward an' hard to govern, not allo
gether bad,
He 'was strong an' proud an' set in his ways,
but not a vicous lad ;
An' somehow we couldn theop him quis der
But I know he had a tender heart, an' a good an' noble soul, ${ }^{\text {and }}$ a mother's prayers will go with him, whereAn' a mother's prayers wer may be-
ever he may od keep him safe an' bring him home in His
good time to me.
"I miss our children's voices, for all have gone away;
One has gone to the better land, an' the rest have gone astray.
I wonder if up in heaven, where all is bright and fair,
If we will meet our children an' they will love If we will meet
us there."
There was a rap at the outside door, the old
folks gave a start,
Them her rocking chair
with a flutter at her neart.

The door swung widely open, and banged ad into the farm stra the farm house kitchen strode a she woman looked at his bearded face a mo. ment in surprise,
She saw a quiver about his mouth, and a gled look in his eyes; And lifting up her hands to heaven, she uttered and bowed of hor white head lovingly on the
breast of her breast of her wayward boy.
The red flames roared upon the hearth, the beech logs oracked and steamed,
And on the floor and time worn walls the firelight glowed and gleamed;
That old New England kitchen had never been
more bright,
Than it was to Farmer Ketchum and his wife
that that winter night.

## Notices.

We are now pluming our wings for flight to different localities, and might alight in your section of the sountry at any time. We never can fill one-tenth part of the calls now made, but must select those points that we deem o the greatest interes and iournal, and as far a time and circumstances will permit, visit as many places this year as possible, but as yet are undecided whether we shall be able to leave Ontario and visit the Maritime Provinces, British Columbia or the North-west. During last sumnier we visited the Province of Quebec accompanied by our artist. In order to make these visits more interesting and valuable to the readers of the Farmer's advocats, wo wil, the request of five or deliver a sited
Now is the time to procure and use the Field Force Pump for spraying froit trees, watering
Send for a catalogue to the gardens, in the U. S. A., or to Waterous Engine o., Brantford, Ont. See advt.

Messrs. E. Leonard \& Son, on 30th ult., hipped to Mess.20.horse power stationary en 25 -horse power steel boiler, to gether with one of Tiffany's Centennial Brick and Tile Machines, of which they are the sole Canadian makers. They report business rathe brisk at present, and intend making some larg hipments to New Brunswick and Nova Sooti the course of a week or two
The Art Amateur for May has been laid on our table, and proves as attractive and meri rious as ever. For any one intorested in the Household. the Art Amalour is th pensable. Besides the usual content umber has an oxcll song panel design for gns for red chalk mose for chine painting ood carving, pasign, etc., which gives but rass idea of the variety and uniqueness of the ssue. Certainly the Editor, Montague Marks, to be congratulated on his great success in hilding upa really deserving art monthly.
The Ninth Annual Session of the American tseciation of nurserymen, florists, seedsmen and kindred interests will be held in the city of Chicago, commencing Wednesday, June 18th, 884, continuing three day.

ऐtnele 'बom's Department.
My Dear Nephews and Nieges,-Just fancy : June is here already, and almost before we know it the year will be gone. Now, then, children, work real hard with the puzzles for the next six months, and let us have a lively contest for the prizes. Some of you who are yet behind may come forward and beat even those who commenced last January. It is the quantity of correct answers to puzzles that counts, and quaity, not quanticy, of original will proceed. The correct way to present your wizzles and answers should be neat and in rotation. Any of you can make and send an illustrated rebus if you like, but it must be a good motto and well drawn, and something good motto and well drawn, and somet some letters get astray, but I publish the names of all those from whom I receive one or more correct answers. Address plainly, "Uncle Tom, Farmer's Advocate, London, Ont."
You thought last month's puzzles hard. I hope these will suit. Now, try and make them all out.

Uncle Tom.

## Puzzles.

2-charade.
My first is often eaten
Although you sometimes see it
Going on legs.
My second every person is
When they do not feel well:
My third is very heavy,
Now, if you join all these aright,
$\begin{array}{ll}\text { A city in canada they'll bring to } \\ \text { sight. } & \text { A. J. Taylon. }\end{array}$ 3-drop-vowel puzzle.
-h wh-l- $\mathrm{t}-\mathrm{y}-\mathrm{f}-\mathrm{f}$ t-s h-rd t

$\mathrm{r}-\mathrm{m}-\mathrm{mb}-\mathrm{r}-\mathrm{t}-\mathrm{s}$ h-rd-r st
$\mathrm{t}-\mathrm{h}-\mathrm{v}-\mathrm{n}-\mathrm{w}-\mathrm{rk} \mathrm{t}-\mathrm{d}-$
Cassie L. McSorley,
4-square word.

1. Part of every carpet
2. An open space
3. Used in guiding horse
4. A short breathing.

Henty Reeve.
-damond puzzle.

1. A consonant. 2. A boy's name. 3. A small hill. 4. To travel. 5. Metal coined for traffic. 6. A boy's name. 7. A vowel.

Minvie E. Weldon.
6-a bigzag puzzle.
Form of Puzzle.

Firstly, I mean wise. $\quad 0$

Whole, I am a river of Ireland. Archie shipley.
7-transposition.
Het ocetavad, si a pesiddin ruojnla.
Si todne orf sti nolkewgde dan nuf.
Os I isarde lal oppeel ot rty ti,
Ti ilwl eeplsa oyu ohtb lod kosfl dan ougny.
ada Hagar.

8-tbansposition Mohe si taht saarpide woleb
Fo neinsshu nad fo worlefs, Frhew wolhelad yosj nerlinape olwi $\mathbf{Y b}$ lacm teereedquss rosbew. Magie F. Elliott.

## 9-numbrical enigma

## My 4, 8, 7,12 is a coin.

$\mathrm{My} \mathrm{3,8,6,1} \mathbf{1}$ is a dagger.
$\mathrm{My} 10,11,5,12,6$ is to direct.
$\mathrm{My} 13,5,2,9,3,12,5,6$ is an animal.
My 4, $, 6,5,5$ is dismal. Whole is
of carpets.

10-beheading.
My whole is what you do with your eyes Wehead yow, and a kind of ring My next will bring to sight; Behead again, and you will see If yout printail me new, nows you'll find
A preposition I'll disclose.
A preposition I'll disclose.

## A. J. Taylor.

Answers to May Puzzles

1. Righteousness exalteth a nation.
2. Triumphal arch that fill'st the sky
When storms prepare to part, I ask not storms proud philosorephy tart I ask not proud philosophy
To teach me what thou art.
3. Parliament.
B. S. Scott, Mary McElroy, Adelaide Manning, Earah E. Miller, Jessie M. Fox, Esther L. Ryan,
va C. Kelly, Will Thirlwall, Jas. Paterson, Jas. Cowan, Ada Armand, Minnie E. Weldon, Jas. Cowan, Ada Armand, Minnie E. Weldon,
Ada Hager, Sarah M. Brett, Maggie F. Elliotti, Ada Hager, Sarah M. Brett, Maggie F. Elliott,
Magge E. Stenhouse. Neil MMEwwen, Archie
Shipley, Mary McArthur, Peter Lamb, R. J. Risk, Tiny Docker, Robert Wilson, Isabella Risk, Tiny Docker, Robert Wilson, Blaabella
Heron, Sarah Wessel, G. B. Van Blaricorn,
Henry Reeve, A. J. Taylor, M. C. S., Wm. Carney, Amelia E. Walker, Robert Kennedy, Mary B. Currie, Byron G. Bowerman, J. W.
Forbes, Harry A. Wood worth, Philip Boulton,
Wilson Sissons, Addie Davidson, Eva J. E. Forbes, Harry A. Woodworth, Philip
Wilson Sissons, Adie Davidson,
Henderson, R. Scott, W. M. Head.

## How Tony Sold Rosebuds

He was only a dog, but a very smart dog, in deed. He belonged to the class known as Shepherd dogs, which are noted for their sagacity and fidelity. His master was a little Italian boy, called Beppo, who earned his living by selling flowers on the street.
Tony was very fond of Beppo, who had been his master ever since he was a puppy, an Beppo had never failed to share his crust with his good dog.
Now, Tony had grown to be a large, strong dog, and took as much care of Beppo as Beppo ner with his basket on his arm, waiting for customer, Beppo would feel inclined to cry for very loneliness; but Tony seemed to kno wh en the "blues" came, and would lick his master's hand, as much as to say, "You've got me for a friend. heer up! I'm better than nobody 'll stand by you !".
But one day it happened that when he other boys who shared the dar cllar-home with Beppo, went out yin morning as usual, Beppo wa on that he could hardly lift his促 bell ha to do he did not know.
do he did his best to comfort him; but the tears would gather in his eyes, and it was with the greatest difficulty that he at laot forced himself to get up and go to the florist, who lived near by, for the usual supply of buds. Having filled his basket, the boy went home again and tied it around Tony's neck. Then he looked at the dog and said :
"Now, Tony, you are the only fellow I've got to depend on. Go and sell my flowers for me and bring the money home safe, and don't let any one steal anything." Then he kissed the dog and pointed to the door.
Tony trotted out in the street to Beppo's usual corner, where he took his stand. Beppop's customers soon saw how matters stood, and
chose their flowers and put the money in the chose their lowers and put the money in then when a bude boy would come along and try to snatch a flower from the basket, Tony would growl flercely, and drive him away.
So that day went safely by, and at nightfall Tony went home to his master, who was waiting anxiously to see him, and gave him a hearty welcome.
Beppo untied the basket and looked in the cup, and I shouldn't wonder if he found more money in it than he ever did before.
That is how Tony sold the rosebuds did it so well that Beppo never tires of telling did it so wo
about it.

## Humorous.

" Now, Timothy," said Mrs. Timblethorpe, one Sunday morning not long since. "I want you to go to church with me to-day. You digracefpl for a man of family to show such had example to his children. "I am tired," amarked Timblethorpe, as he helped himsel to another fish-ball, "and besides, I have got to go down to the post-office to see what is in the mail." "Nonsense," replied his spouse in slightly nettled tone, "your letters can wait until the services are over. I want to show that odious Mrs. Burlap who has just married her third husband, that I can have some one to wait upon me to church as well as she." Timothy groaned in spirit, but he said nothing, while he set his wits to work to escape from the poors provite place of worship rotnne to his aid, is she does to all ortune came to his aid, as she does to ahe saw a new bonnet shining in all its glory pon the dressing case. "Humph, my lady," he murmured to himself," I have discovered the secret of your sudden influx of religious fervor. I'll punish you for your hypocrisy and reward my virtuous self at the same time." With this he called "kitly, kitty," in his most seductive voice, and presently there appeared in the apartment an enormous tom cat. Timblethorpe said nothing, but shat the door upon the creature of feline breed, and when Mrs. Timblethorpe opened in the ends and feats the birds that adorned it scattered about in various directions. Mrs. Timblethorpe did not go to church that morning, but Mr. Timblethorpe went to the postoffice as usual, and enjoyed his after-breakfast cigar with the serenity of a man who had done good thing
Poot's wife remarked to him, as they started oat the other night to take supper with the Browns, that she expected Mrs. B. would have a stunning coiffure. "Well, I'm sure ope so," grumbled Poots, "I haven't had anything good to eat since the last time we were at mother's.
A recent advertisement read as follows: "It the gentleman who keeps the shoe store with read head will return the umbrella of a young lady with whalebone ribs and an iron hill hear ff something to his advantage, as the same is the gift of a deeesed mother now no more with the name engraved on it.
"Have you given electricity a trial for your complaint, Mrs. Fishwhacker?" asked the "Electricity"" said she. "Well, yes, I reckon I has, I was struck by lightning last summer, and hove out of the window ; but it didn't seem to me no sort of good."
During a dense fog, a Mississippi steamboat took landing. A traveller, anxious to go ahead, came to the unperturbed manager of the wheel and asked why they stopped. "Too much fog. stars overhead." "Yes," replied the urbane pilot ; "but until the biler busts we ain't going that way.". The passengers went to bed.

Whistle boys, and girls too, all you want to, provided there is nobody around with an achWhistling the shrill tones set to jumping. food to digest, and makes many a hard task easy. There are lots and lots of boys in the world who are denied the pleasure, although it is as natural to them as swimming is to ducks. In some countries the mouth of a whistler is considered unclean for forty days after the act is committed, for the poor deluded natives think Satan has had the boy in his embrace ounds other place the thin that whistling in the evening makes the angels weep. Among the Irish there is prevalent a superstition that when a girl whistles the heart of the Blessed Virgin bleeds. Now, just think of the cruelty of repressing whistling by a boy, to whom there is no greater pleasure than to get ont in a wood-lot, and free as a bird himself, introduce into some familiar tune, birdlike trills and runs and quavers! He feels so exultant and triumphant at his power over his whistling apparatus that he works with tenfold more zest. The whistling boy generally geta on in like

## City and Country.

## Away from the city I hastened one day

 For a very short time in the country to stay Bid adieu for awhile to the noise of the cars,The whistle of tugs, advertisement of "stars"; To the clouds of black smoke,- -to the dust of the street ;
To the watering carts making mud for the feet
To crowds on the side-walk who go their own way,
(No attention to sex nor age do they pay),
To the need to be careful of shoulders and knees,
When into the cars the passengers squeeze ; To the milkman, the iceman, and also the sight
Of meat in the shops-and the cry of "all Of meat
right,"
To the sa
To the sad sights we see, to the joys that All vainly, alas! if we chance to be poor ; To turn from all this to the country away, Though perchance our vacation may be but on To all the sweet smell ; and sounds in the air To all that is gladsome; to all that is fair ; To the drinking of milk-to the lowing of kine,
To all that is pleasant ; to much that's sublime; To breathe a long breath of air that is pure, So pure, that it seems it all evil may cure;
To the quiet that seems all our soul to im To the quiet that seems all our soul to imbue,
And expunge all that's false, confirm all that's And expung
true
Then back to the city our work to begin
And our duty to do in spite of its din: And our duty to do in spite of its din;
To help all that's good, on all evil to frown To help all that's good, on all evil to frown,
Since "God made the country, and man made
the town
-[M. P. J., in Farmers' Call.

A Baptist minister was once asked how it was that he consented to the marriage of his daughter with a Presbyterian. "Well, my dear friend," he replied, "as far as I have ever theology.

In July issue some very attractive premium will be offered. Subscribers will confer a favor on us and recive a bene their friends. some canvassing among their friends.

Sittle Enaes' Columm. The Emu's Party.
dedicated to the writers of chlldren's poetry.

## An ancient maiden Emu villa, Had a breezy country vithe With an extensive sea

With an extensive sea view,
On the south coast of Australi
This Emu's tastes were social And her heart was warm and kindly, So she gave a children's party
And sent her cards out blindly

To the Dodos and the Parrots
And the Vultures and the Sea-gulls, And thoughtlessly included
Six little unfledged Eagles.

Then she called on Madam Duck-bill At her home beside the water And proceeded with effusion
To invite her infant daughter.
"I will take care my dear madam, If you will be so good
As to trust us with your Susie,
That she eats the plainest food-
" Some simple vermin chowder, Or only ants on toast, With smothered flies in honey,
" Mashed angle-worms and spiders Or, if you think it best, Grub soup with vermicell
"She shall be at home by bed-timeOr any hour you choose." Said Mrs. Duck-bill, solemnly,
" Have you asked the Kangaroos ?"
"Why, no ; the thought, dear madam
Had not entered in my head :
I have but slight acquaintance with
That fore-shortened quadruped."
" Then I'm afraid, Miss Emu,
Her grand pa was a mammal
Her grandpa was a mammal
Well connected, as you know.
" She can never know wild Pigeons, Nor those children of the
Who seem to be deplorably
Incapable of culture."
"If that's the case, dear madam,
We'll close this interview. My friends are birds, and so am I," the dignified Emu.
"I'm sure I know the Eagl
Move in vastly higher circle
Move in vastly higher circles
Than that purse-pround Kangaroo,
"Then the Parrots and the Pigeons Have a regular family tree :
No animals are higher born, nor have A better pedigree
"There's my grand-uncle Ostrich Can hold his head as high As any wealithy mamma',
And-I wish you, ma'am, good-by.
So little Susie Duck-bill
Was forced to play alon
By the artificial attitude
By the artificial a atitucte
Of her mother's social tone
She could see the Parrots swinging,
Hear the Eagles' laughter shrill, Dnck-'jills
And said, with tears, "I wish we Dne
And said, with tears, "I wish we
Weren't so fearfully genteel."

## Sommercial.

thi farmirg' advocats ofyic, cheese
The make of May cheese this season is far in dvance of that of last year. In Quebec a large number of new factories are said to have been built this season, and we may look for a pretty large make as the season advances, ing dairy paper in the States says: 'Factorymen must expect to meet the following condi tions this season :-First, an increased make o cheese both in the States and Canada. Second an increased make of cheese in England Third, the probable low price of most food pro ducts throughout the world; and fourth, a pos sible continuance of disturbance in the financia world. These will tend to make a lower mar These are plain facts, and our factorymen will wo well to keep these facts before them th coming season.

$$
\begin{gathered}
\text { coming season } \\
\text { At the Lo }
\end{gathered}
$$

At 3,000 boxes market on Saturday last,
a few small lots at $10 \frac{1}{8}$ a
The shipments from Montreal up to date are some 20,000 boxes in excess of same date las year.
Salesmen will do well to accept the situation and take the market price for their cherse, and
let it go into consumption as fast as possible.


The market is decidedly weak and dull Good dairy butter is not worth more than 15 c . the make will be heavy.

The Produce Market. Toronto, Saturday, May 31. English quotations showed no change to.day. Montreal
was quiet.
stateos markets were generally peteady. The was quiet. states markets were generally steady. The
loal market ontitued dull and inative. Folournomin.
oully unchanged ; if there was any movement effected it








 article in ac




SHORTHORN BULLS, COWS and HEIFERS FOR SALE.
heifers of aill ayes. All pedigreed, and guaranteed
class.
 221-b $\quad$ SETE HEACOCK \& SON
Oakland Farm, Kettleb
WANT TO SEND, GRATS, to every farmer who
Writes tor it, an interesting book and map of the Cannices and spesing os or
Victoria St., Toronto.

FRUIT BASKETS! Rest saty




THE GREAT
Industrial Fair Semi-Gentennial Exposition Live Stock, Poultry, Dairy, Agricultural and
Hortioultural
and Man Podnots,
kindures
kind of all I○卫ROINTO, SEPTEMBER IOth to 20th, 1884. The Largest Prize List in the Dominion,
The programme of special features and novelties will
be the best yet presented The proget yet presented by the Asociation.
be the best from the
Prize Lists and Entry Forms can be obtaine
 Institutes, or the will be sent any where on application
by post-card to the Seretary at oronto.
Cheap Rates and Exeursions on all RailCheap Rates and Excursions on aul The Bost Time to Visit the C

> J. J. withrow,

Presideat. $\qquad$ H. J. Hill

GARDNER'S \$2 BABY JUMPER. CHAS. T. GARDNER, Napanee, Ont.,
Sole Proprietor and Manufacturer tor the United States
and Canada.



OLDS' PATENT
1, 2 and 3 HORSE-POWERS and SEPARATORS The Leading Threshing Machine in the Dominion. Will do almost Double the Work of the Old Style Mills.

Campbell's Riddle for Extracting Cockle and Wild Peas from Wheat.



## Free Homesteads!!

In the Temperance Colony, N. W. T.

## 160 ACRES FREE TO ACTUAL SETTLERS.

SPECIAL ADVANTAGES:
(Ty First Class Land. Hoalthy Clumate. No Fevers. Planty of Pure Water.
 sASKATOON, the capital of the Colony, already shows prospects of being the most important city on the Sas.
katchewan River.
Lots tor sale cheap and on easy terms. Excurions from Ontario every week. For particulars apply to Head Office, 114 King St. West, Toronto. M. S. SMith, President. $\quad$ 221-a $\quad$ wemberton Page, Manager.


IHES LINE SELECTED BY THE U. S. GOVMI to CARRY THE FABT MAIL


GOING WEETI. ONLT LINE RUNMNING TWO THRODGH CHICAGO, PEORIA \&ST. LOUIS, Through the Heart of the Continent by way of Pacitic Junction or
 SAN FRANCIICO, and all points in the Far West. shortest Lane to KAN8AS CITY, And all points in the south-West.
TOURIBTR AND HEALTH-8EEKERS

 Yosemite, the CITY OF MEXICO,
nd all polnts in the Mexican Republic


 Finest Equiphiped Raill ood in the World for



JNO. Q. A. BEAN, Gea. Eastern Ag't, and
" LITTLE BRANTFORD" TWO- HORSE CORI-BINDER.


FARMERS.
You need not purchase a Binder that will not go through your gates and barn-doers. The "Little Brantford" will do it, and save you time and money. Our five foot cut folds to ten feet six inches, and our six foot cut folds to eleven feet six inches.

POINTS OF SUPERIORITY.
A Double-angle Finger Bar, stiffer stronger and better than any other Iron-capped Rollers to prevent the straw from winding; Extra Heavy Canvas; A Steel Spring Seat; Improved Adjuster; Zinc Covered Decks, and the only Perfect Folding
Binder in use.


A. HARRIS SON \& CO., Limited, Brantford, Canada.

Notices.
Continued from page 179.
Fairs - The Western Fair will be held in London, Ont., from 22nd to the 27th of Septem. ber next, and the Provincial will be held at Ottawa between the same dates. The Indus rial will be held in Toronto between the 10th nd the 20th September
Strawberries promise an abundant crop. raspberries appear well set. Gooseberries, ome localies, are not well set. The prospe or an abundant apple crop is promising. Ther deal of the wood on grape vines has bet killed, particularly of the tender varieties The black knot is extending its destruction to he plrm and cherry trees faster than it should have boen allowed to. If you have small fruits and intend to send them to market in a proper hape, address a post card to W. B. Chisholm, Oakvillc Basket Factory, Oakville, Ont., for circular of their fruit packages and bask They make all kinds and of good quality
Sorahicm. - We have received a work on the culture and manufacture of sorghum as a source of sugar, syrup and fodder, by Peter Coline f Agriculture, It is published by Messra Robert Clarke \& Co., Cincinnatti. It contain 570 pages, and is the most exhaustive work ex tant on the subject.
A dictionary of practical apiculture for bee eepers by John Phin, pablished by the In ustrial Publication Co., New York
To Tourists.-From the present date to the st October, round trip tourist tickets, good for Oct., can be purchood for returning until enver Pueblo, Colorado Springs, and other points, ci the Burlinyton Route, C. B. d. Q. R. R. Apply to any railroad ticket agent for ticket rat General Passenger Agent, Chicago.

The Waterous Engine Co. While visiting our many agricultural imple ment manufaztories during the fall of last year and the beginning of the present year, we were the city of London, that they had at least one hundred hands too many, and that they could not find more than half employment for their hands. In contrast to this, one of the busiest shops, and one which kept their hands in ful work, and were extending their operations, was the Waterous Engine Works at Brantford Ont. This firm has gained such a good repu tation in South America, Australia, Swede and Germany for saw mills and mili gear, chan tries. When in Brantford a few days ago, we saw a large portable threshing engine made for burning straw for fuel ; this was to be shipped to Turkey. The Waterous Co. complain bit terly that they are unable to get any rebate for goods made in Canada and shipped out of the Dominion, and consider that Canada should have a representative in some of the foreig cruntries, and think that much good
con acted upon.

222

## Miller's "New Model" Vibrating Thresher



Manufactured by the Joseph Hall Manufacturing Company, Oshawa, Ontario. the most perfect thresher, the most perfect separator, the most perfect cleaner ever offered to the public. the only true crain saver
TOHN DRYDEN, M. P. P., on the "NEW MODEL." (From the "Ontario Reformer," December 21st, 1888.)
$\square$



$\square \longrightarrow$ Brooklin, Ontario County, Doo. 13, 1880.

 dust, there ean be no wo waste of grain, and it it in
a great boon both to threshers and farmers.
222-0
New CHAMPION HORSE HOE
It Hoes, Cultivates, Cuts from the Drills, Hills Up all Root Crops, Corn, Beans, Strawberries, Onions, \&c., \&c.
The Most Conplete Implemener for these Pupposes lanauactured.

fruit pagkabes

## BASKETS

of every Description and of the Best Quality, send to The OAKVIILE BASKET FACTORY,

Strawberry and Raspberry Baskets Cherry, Peach, Plum and Grape Baskets.
Clothes Baskets. Butcher's Baskets 1, 2 and 3 Bushel Baskets.

Satchel and Market Baskets. Gardeners' Plant Boxes

Grocers' Butter Dishes. \&c., \&c., \&c.
W. B. CHISHOLM, - 0

OAKVILLE VALJABLE FARM FOR SALE.




J. DIXON is Your Photographer.
 292.f 201 and 203 Yonge St., TORONTO.
C. P. Mill.s, St. Catharines, ont, manutacturer



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Improved "Wide-Awake" Separator, Weller's Independent Spring Tooth Sulky Harrow, with or without Broad Cast, and Grass Seeder; Bickford's Non-Freezing, Force, Lift Tank, and Suction Pumps, Drive Pumps. ${ }_{\text {ild }}$

Stock ${ }^{2}$ Notes.
There is a demand among ranchmen for Polled Aberdeen bulls from the first cross with our native cows, to breed off the horns of the Texan steers and to increase the value of the carcass.
Our Scottish correspondent writes us that the following purchases have been made by the Ontario Government for the Model Farm, at Guelph : From the herds of Her Majesty the Queen, two Herefords and two Devons, one of the former being the 2 -year-old bull, "ConIueror," Which cost 500 guineas. From the Mary Park par , the herd of Mr. Wilkin cows; and from Forbes, a 2-year-old Polled bull, "Strathglan," also 7 Guernsey and Jersey cattle, 6 heifer and 1 bull, as well as some Galloways and Ayr shires from the Duke of Buccleuch. They have also purchased two Shorthorn cows with calves at their feet, and are negotiating for others. Some sheep are also to be imported £65 having been given for a Shropshire ram. Four collie dogs also form part of the purchases. At the combination sale of Jersey fancy cattle in New York, May 7th, ninety animals were sold for $\$ 70,000$. The number of imported cattle sold was not large, those born on this continent exciting the keenest competition. The cattle from the farm of Valancey E. Fuland fetched very high prices. A beautiful silver grey cow, Honeymoon of St. Lambert, daughter of Stoke Pogis 3rd and Byron of St Lambert, was bought by Mr. Pierce, of Boston, for $\$ 4,100$, and Cowslip of St. Lambert, from the same farm, was bought by the same party or $\$ 3,000$. The highest price realized was for Bomba's daughter, a 2 -year-old heifer from A . B. Darling's herd, $\$ 5,200$. Mr. Fuller purchased Kadi, an 8-year-old cow, for $\$ 2,100$, and lbert's Queen heifer for $\$ 850$.
Messrs. Green Bros., of the Glen stock farm, Innerkip, Ont., inform us that their cattle and
horses have arrived safely at Quebec, where the former remain to complete their term in quarantine. Their horses including the stud Regent (3281), a brown 3 -year-old, sired by Smith's Black. Prince, dam by Champion of England ; also two mares, Lacey, a fine bay, and the Queen of Aylesbury, a bay filly. They re all of the noted Shire breed, and reached their farm safe and well. Six Shorthorns-a bull named Enterprise, bought of Mr. Duthie, sired y Cruickshank's bull, Ventriloquist; a cow and our heifers also from Duthie's herd, and a yearl ing bull from Nr. Marr sstock; he is half trother to Earl of Mar, imported by them last year, bull is by Athabasca in calf to Rob Roy, for which Mr Duthie paid very high price last year. The other heifers have been served by Field Marshal. They have also imported a bull and five Hereford heifers-Polka, by Othello ; the yearling bull Cronhill Sth, by Newry donarch, purchased at Mr. Hill's of Felhampton Courts, sale ; a heifer bred by Mr. Forester, of Shirlowe; the remainder from the herds of Mr. Henry Hay--
wood, of Blakemere, and Mr. Councillor Griffiths, of Brierly.
(Continued on Page 188.)

95| FIRE-PROOF CHAMPION ENCINES


WATEROUS ENGINE WORTS CO., BRANTFORD, CANADA of mater, and d g great deal leas, wood than I everer conld with the 12 h .


See Our straw Burner for 1884. It is a pronounced success.
Full supply of Engines, repairs and eetliers' outatst kept by our branch Foundry and Machine Shop in Winnipeg. WATEROUS ENGINE WORKS Co., BRANTFORD, CANADA The IMPRDVED DANISH MILK SEPARATOR of Burmeinster \& Wain
 $\mid$ Which was awarded two gold medals (one in searators for two horses and the other in class $\mathbf{B}$,


 completeness of ofkimming and the same quanticy of
(mink worked per hour, DeLanals searator requires one.
|third more power. 2 nd, with the same completeness of

 Wain's large gize separator requires 1.50 horse.power. Table ehowing the relative maximum capacity of the Bur-
meinster \& Wain and the DeLaval
milk separators, and the amount of motive power required to drive them.

$\qquad$ 221-c

## $\$ 100$ to $\$$

Paid on Marriage by Matual Marriage Aid Association. Has Paid in Benefits to its Members over \$100,000.


Agents Wanted Citizens Insurance Co., of Canada Head Omoe, 179 St. Jamos stroot,

 insurano riaks to those wo have valuable cónnotion oite. No aseasments. Losese patid as poon as proved
 GOOD BOOKS FARIII, GARPEN AID HOUSEHOLD The Farmers Hand Book for 1 Res; paper, 25c., in



 Buits. in ppper onters.























 Ten Acres Enough.
Thompon's Food ol Animals








improved double-ACTING
PITCHNG MACHINE


## WASHBOARDS

THE BEST IS THE CHEAPEST.


FARM FOR SALE.

 $\left.\begin{array}{c}\text { Enquire of Ji. SHANLY, London } \\ \text { Dated 31st March, 1884. }\end{array}\right\} \begin{gathered}\text { Co-trustees } \\ 220 \text {-ti }\end{gathered}$

THE CELEBRATED WALKER BUTMRR WORKRRS
Suitable for use of farmers and country, storekeepers.
Three sizes. Write oro particulars. Dairy salt in large
and small scks constantly on hand. and small sacks constantly on hand.
JAMIES PARR \& SON 221-c $\quad{ }_{41}$ to 47 St. Lawrence Market, $\begin{gathered}\text { Torontor } \\ \text { Toront }\end{gathered}$

## W. DOHERTY \& CO.

 ORGAN MANUPACTURERS Olinton, - - Ont $\underset{220 \mathrm{y}}{ } \mathrm{i}$. SWISS SOAP! Guaranteed Best in the World! Ask It!
$\qquad$ $-\stackrel{a}{\mathrm{a}}$

## it

 keeps the vine former in growing, and this rotting on the ground. This from falling and turn the swine on, to get their full living off it, from the latter part of 'June into Angust, according to climate. Oats and peas are the best kind of food that the farmer can most easily grow to make fine bones and muscle for pigs, far superior to corn ; the crop is also an excellent preparation to grow corn on the same ground next year, as the manure from the swine and the decay of the remnant of stalks and peas left, will enrich the soil suf ficierr thin ad phonla Ivcrasing Leay Mert ind Incrbasing Lean Meat in Pigs.-Wemay well suppose that the may well suppose that the habit of the pig in laying on an cen consed by long and excesity of fat has fat-producing food, and it is not likely that any sudden transformation could be brough about; but it is well known that the pigs of different countries differ in respect to fat. We have only to contrast fattened pigs of this country to those in Canada. There pork is fattened partly upon barley, but largely upon peas, a highly nitrogenous food, yielding a large portion of muscle, and our pigs are fat tened almost wholly upon corn, and exces sively starchy and fattening food. Th Canadian pork has a much larger proportion of lean meat and less lard. The difference is plied with both kinds purchasers easily select the one or the other as desired. Wild hogs do not have such excess of fat and the South ern hog, which is grown much slower in the Southern and Western States, and fed upon much less corn, is comparatively lean.
There can, therefore, be little doubt that the habit of depositing this excess of fat is caused by long continued feeding adopted to that end. The hog is naturally a grass and root-eating animal, and in its domestication is fed almost wholly, in this country, upon concentrated food. Hogs fed upon skimmed milk have less If young pise than those fed upour the muscles and hones and develop a rangy frame, they will possess so much when half grown, that a moderate length of time in fat. tening, even on corn, will not pile on an excessive amount of fat.-National Live Stock Tournal, Chicago.
(Continued on page 190.)

BRICK \& TILT MAGHINT PARIS NURSERIES! CHEAP TELESCOPES

We are now manufacturing a first-class Augur Brick and Till Machine
which is capable of making from

10,000 to 15,000 Tile per Day. Machine warranted in every respect both in strength and
quality. Send for pertieulars.
D. DARVILL \& CO.

PARIS NURSERIES!
FRUTI \& ORNAMENTALTREES SHRUBS \&VINES
at remarkably low prices.
NORWAY SPRUCE FROM \$8 TO \$25 PER 100 .

AUSTRIAN PINE FROM \$10 TO \$25 PER 100 george arnold, Paris, Ont. | to the late Charles Arnold. | $221 \cdot y$ |
| :--- | :--- |

In consequence of the increased demand for my WNGINES, I have added to my shops and machinery, and shall largely increase the pro
duction of engines for 1884 .

It is licensed by all finsurance Co.'s
and has proved itself to be the most ATP The Engine for the Northwest is
made to burn either coal, wood or straw. Farmers, prooure a Genuine White Threshing Engine at the Forest City GEORGE WHITE, Proprietor and Manager H. B. WHiTE, Supt. of Machinist Dept.


## F A



## EOUSTLME RALLEMTL HAY LOADER

Received the Highest and Only Award at the Centennial Exhibition.


Manufactured by MATTHEW WILSON \& Co., Hamilton.



mount of grass daily, knowing that he he has the
For descriptive cataogues, etc, sent
RUSSELL \& DUNN, SOLE AGENTS FOR THE DOMINION,
No. 9 Market Street, HAMILTON, ONT

[^0]A portable 'Achromatic Telescope that will tell the time of the church clock in Toronto at three miles off, with extra astronomical eye piece and sun glass for astronomical use. It will show Jupiter's moons, spots on the sun, mountains in the moon of $\$ 5.50$.

CHAS. POTTTER, Optician 31 King St. East, Toronto. ESTABLISHEAD 30 YEARS.

TEESTIMONIAKS. A few simple Testimonials that
Speak for Themselves. N Norman, Eso_-Dear Stiwa, September srd, 1888.







E. L. CHURCH'S Hay Rlevator \& Carrier.

the very best in the market There are thousands of these Elevators and Forks
now in uso in Canad, veerywher giving te very bot
neith otion The REOOLIIIIG BARPEL CHWRII

 car Be Bure and try one before pur by
MANUFACTURED BY WORTMAN \& WARD LONDON, Cor. York and willimem stro

STOCK NOTES.
(Continued from page 18s.)
W. Gempler, Jerseyville, Ont, recently purchased from the C. W. F. S. Association, Bow Park, Brantford, Ont., the Shorthorn cow
Adeliza 19th, which has a distinguished Adeliza 19t
pedigree.
George Bunbury, Oakville, Ont., has recently arrived from England, and has commenced
the breeding of Shorthorns and Suffolk pigs. the breeding of Shorthorns and Suffolk pigs.
He has several valuable prize animals, both cattle and pigs.
cattle and pigs.
Sales of Holsteins.-Messrs. Cook \& Son, Aultsville, Ont, have made the following sales during the past seven months: A. Giffor Meaford, Ont., heifer and bull calf, $\$ 675$; Wm Shunk, Sherwood, Ont, heifer and bull calf $\$ 600$; H. M. Williams, Picton, Ont., cow and yearling bull, $\$ 925$; Samuel Curtis, Harwood, Ont., two heifers and one bull calf, $\$ 900$; Geo Cleland, Listowel, Ont., bull calf, $\$ 250$; H. L Ross, Georgetown, Ont., bull calf, \$175; H. Boilert, Cassel, $\$ 1650$. Fuller Steve Ont, bull calf se00; F. H McCrea, Brock ville, Ont, yearling heifer, 8350 . James David son, Spring Valley, Ont., bull and heife calves, $\$ 400$; Benj. Fletcher, Oxford Mills Ont., yearling bull, $\$ 350$; Jno. Raymond Moulinette, Ont., bull calf, $\$ 200$; Jas. Bissell, Algonquin, Ont., yearling bull, $\$ 350$; Jas. Binningham \& Co., South Lake, Ont., yearling bull, $\$ 335$; J. E. Page, Amherst, N. S., cow and yearling bull, $\$ 900$; J. B. Arnold, Easton ${ }^{\text {a }}$ Corners, Ont, yearling bull, $\$ 350$; in all 27 head, averaging $\$ 318.88$.
Ayrshire Breeder's Association.-At a meeting of Ayrshire breeders held in Montreal, the last week in April, they completed the or of Plantagenet, Ont., was elected President and Mr. Jas. Drummond, of Petit Cote, Mon treal, vice-President ; Mr. Geo. Leclerc acted as Secretary. It was resolved to obtain an act of incorporation for all Canada. The first vol ume of pedigrees to the number of about four
thousand, tracing to reliable importations, is to be copyrighted and at once published at a moderate charge. It is intended to make this volume the reliable Ayrshire herd record for Canada. Pedigrees that are not accompanied
by reliable evidence of purity will not be acby reliable evidence of purity will not be ac is only five dollars. It was suggested that all the Ayrshire breeders of Canada should join the association, and unite in their efforts to maintain the character of Ayrshire cattle as the best breed of dairy animals for the farmers of Canada. Members will be allowed to enter their herds at reduced rates. Some interesting questions were discussed. Mr. Rodden, the President, read a paper on the breeding of dairy stock. The meeting was unanimous in
desiring that live stock exhibitions should not exceed one week, which was considered long enough to be from home. In England and Scotland cattle are only required four days on
exhibition grounds, and more varied and lib. exhibition grounds, and more varied and lib-
eral prizes are awarded. The next meetings will be held at the Montreal and Ottawa exhi bitions.
The cattle interest of the United States, according to the census of 1880 , represents 993 , 841 oxen, $12,443,120$ cows and $22,488,550$ other
cattle, a total of $35,925,511$, worth $\$ 1,500,000$
000 .

ONTARIO PUMP CO., Limited, TORONTO, ONTI, anufacturers and dealers in Wind Mills, 1. X. L. Feed Mills, Hay Carriers, Horse Hay Forks, Tanks, Pumps and Water Supplies, Iron Pipe and Pipe
state wbat you want and send for STATE WEAT YOU WANT AND SEND
ILLUSTRATED CATALOGUES.


Halladay's Standard wind Mills.
Pumps-Iron \& Wood.
Force or rift. DDep
well pups inecielty


Forree or lift. Dee
well pumps a specialt


 screnings, such as small wheat, mustard, and pussy grass sed, thinking that yoould
not grind it, but I Hround ito pooder, olook ing just ilie ground pepper. Your 13.
foot geared mill, I think, is quite large enough or any farmer to do hisown work. I $\times$ l feed mills. The cheapest, most durable
and perfert iron teed aill
ever invented.

## DeLAVAL CREAM SEPARATOR

The Greatest Dairy Invention of the Age!
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