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| The FARMIR'S ADOOAAPR and HONE MAAAZNRB |

The PARMER'S ADVOCATR and HOMR MABAZINB Itppulishad on or about the 12t of each month, is hand.
gomel flustrated with original engravings, and turninhes
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Any intending subsoriber should send for a sample oopy.

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Subscribers to the Farmer's Advocate
visiting London will find themselves welcome at our editorial rooms.

Farmer's Hand Book for 1885 will be issued early in December next; price, paper, 25 c ., and in cloth covers 50 c . each. Orders can now be sent in.

We are now prepared to get up first-class enWe are now prepare, buildings, implements, etc. These illustrations will be brought out by the best artists and engravers in Canada, and inserted, with appropriate descriptions, in reading columns of the Advocate Satisfaction guaranteed ; extra copies supplied. Write for further and full particulars.

The Ladies' Manual of Fancy Work. The price of above useful work is not 30c. as 80c. per mail.

Our Monthly Prize Essay.
A prize of $\$ 5.00$ will be given for the best essay on "Women as Farmers." Essay to be hande
A prize of $\$ 5.00$ will also be given for the best essay on "The best Methods of Encourag
 1885.

The remaining numbers of the Farmer's Advocate for the present year will be sent free to those new subscribers for 1885 who send in their names now.

Choice Premiums.
Our subscribers should read our list of choice, new premiums offered in another column of this issue for sending in new subscribers. wheat strawberry plants, flower seeds, etc.

## Correspondents.

Correspondents from all sections are cordially in vited to send us their favors, when they have something to say; short, pracical aes, are al ways acceptable.
We want live, energetic agents in every county to canvas for subscribers to our paper, believing it will be of mutual advantage to patrons as well as to publisher. We pay a lib eral commission to agents wo devote thei time to our work. Wresess-
specimen copies. Address The Farmer's Advocate Subscription Dept. London, Ont.

## Sheaves from Dur Gleaner.

Waste no straw.
Trees draw rain.
Study boom collapses.
Haul dry muck for litter.
Read about the fall shows.
Pay as you go; no pay, no go.
Talk farmer's clubs, not potlions.
Exercise your the forestry question.
Inquire into
Don't lounge about town when marketing
your grain.
Don't learn to go to the exhibitions unless
Dol you go to learn.
Don't depend upon boom prices for your thoroughbreds this fall.
If you have $\$ \overline{0}, 000$, invest it in a farm and

The Farmer's Advocate' for 1885. We are now approaching the completion of another volume, and it is with pleasure we look back and notice the great improvements that have been made each year in this journal. We are happy in being able to state that the subscription list continues to increase, and therefore enables us to still further improve and we hope to make Volume 20 better than any of its predecessors. The Farmerts advo cate being the only really in the Dominion it cultural journal published in the Dominion, 1 , has never hesitated to expose frauds and uphold influence that has been brought to bear upon it to try and suppress the truth; and the endeavors made by interested parties to deny the accuracy of the statements made in its pages, the increased circulation proves that the plain, unbiased farmer appreciates the efforts that have been made in his behalf. Being pledged to neither political party nor sea th organization, it is justy oored Canada. Th leading agricultural aun extensively copied by articles in its pages are extensively copied ayd
the press in the United States, Europe, and the press in the United States, Europe, and
even in the antipodes, thus tending to prove even in the superiority of the F'armer's Advocatr. It has been truthfully remarked that wherever the Farmer's Advocate is read the most improved farming is to be found.
The correspondence columns are open to our subscribers for the discussion of any subject interesting, and for the benefit of agriculture. The prize essays which appear from time the time are upcn subjects an friten fy farmers or their griculturist, being writes by experience. milies, and based upon to us to know that du It is very gratifying years most of the best grin potatoes, \&c., which have been of such immense value to the country, were first intro duced and distributed as premiums by the pub isher of this journal, who hopes to be able in the near future to still add to the list. The proprietor being a farmer, knows exactly the requirements of the farmers, and is alway working for thei lators.
The Home Department contains reading matter of the most suitable character, causing it it be eagerly sought for
young. young. advertisements which appear in its.
The
columns are of the highest standard, and form a reference for the wants of the farmer, thus
and rendering and advertisers.

## © ditoriaí.

## Is a Breeder's Good Name Better than Pedigree

What const marshfield.
who breeds stock were a breeder if every man be a revolution in our beefing and dairying industries. There are many preliminaries to be learned before the art of breeding should be put into practice, $\cdots$ such for example as the art of feeding and management. Scrub stock is the legitimate offspring of scrub pastures and back to scrub intelligence. Then be traced the art of breeding is a knowledge of of best methods of rearing animals for the of the objects sought, and then follows skill in the principles of selection. The best test of the breeder is the improvement of his herd with each succeeding generation. To attempt this with an entire dependence upon pedigree would be a most risky undertaking. Pedigree is book-breeding, and yet farmers scoff at the idea of book-farming. The breeder sees evidence of pedigree in every movement and in every point of the well-bred animal; even records are of ated on its features. Stockmen, buing delineand agricultural college Stockmen, judges at fairs to learn before they make us a have yet much ers. For educational purposes, points other indications of performances should and weighed on the balance with the practical results. Many of our so-called experts have mis taken their calling ; they judge by current pre judices instead of substantial realities. The time is fast approaching when our taste will become so perfect that we cannot dis. tinguish beanty from utility; the unsightly, illfavored breed of to-day will be the favorite of to-morrow. The days of judging milk ani Call it by beef points will soon be numbered. inculcated upon our minds may, the principle is that of breeding for tallow our show expert merely forgotten that thedays of tallow have now belong to the dark ages. I might candle a step further and say that we are breeding for oleomargarine. What is the result? "Oleo must go, they pitifully exclaim; it is ruining our dairying interests; laws must be passed for its suppression, and an army of analysts and ther government officials must be enlisted for the purpose of executing the law. All these ills arise from awarding prizes on a false prin come affected by the scourge, offering to dupli cate the prizes given at the big shows, thereby duplicating the intersity of the The real secret of the pedigree booms vast majority of our stockmen have gone that the business without first studying the prelim inaries. The result is that many of our scrubs are becoming scrubbier, and many of our well bred animals are degenerating into scrubs faster than they can be kept improved by fresh importations. We have the material all ready the builders are wanting. Let the breeder: good name be pedigree. In a few short years he will hnow the great grand sires and dams of will be past. His self-interest will be to pro.
tect his good name-like men in other pursuit liability to variationee is a protection against try, let it be thoroughly understod that ued our average mode of selection and main there is a greater tendency to variation than there would be under a somplete system tha lection and management with unpedigreed ani mals. Besides, why not protect the farmer all round? Why should not the dishonest seeds man who defrauds the farmer by changing the name of his wheat, be called upon to produce his pedigree? There is scarcely an article which we eat, drink or wear but should be pedigreed on the same principle-even for stronger reasons; for the practiced eye can variety of seed or a false pedigree than a false Pedigree is the pare of superphosphate attendant iniquities and so long all their couraged, the breeding art will veloped. If the names of Englands saristocres are to be perpetuated through our herds and flocks, let it not be at our expense. Lock up the pedigree libraries.

## Preservation of Our Forests.

We have been honored with a visit from Mr . R. W. Phipps, clerk of forest preservation, who is employed by the Ontario Government to conduct the bureau of forestry lately estab vincial by them. At the request of the Pro each of the take the subjeunty ouncils urging them to forward him the conclusions they shall, and arrived at. Having dilated on the shall have checking the rapid destruction of necessity of he dwells on the common practice of arests, ing cattle free access to our timbered lands whereby they destroy the underbrush, and the larger trees become more and more subjected to the mercy of the winds. Grass grows up and every influence tends to aid the destructive and of the axeman.
These considerations have led to the sugges ion that an act be passed under which any armer by fencing in his bush or any portion of against the ingress of stock, may enjoy tax we have su and
ecessity of encouraging tree-planting urged the possible mamner; but the matter must be considered from the beginning in all its bearings, else endless grievances may arise. There is scarcely a farmer in the Province who has not made some mistake in the laying out and clearing of his land, and this has arisen from the fact that he did not at first see far enough into the future. Similarly we already see evidence of blundering in our mode of tree-planting. In
our tours through the country we observe many trees planted along the road-sides, some planted inside the fences, others outside, and where snake fences exist they are planted on the line one tree in each fence corner. In the west the trees are mostly all maples, planted at very ir. regular distances apart, some growing in soils which would be better adapted to other kinds of trees. The young saplings are usually procured from neighbors who have been far-seeing enough to fence in their woods several years
ago, and we have seen some farmers who
saplings enough to supply their whole neighbor hood.
It would no doubt be a laudable thing to agitate the encouragement of enclosed forests, and even the planting of seedsorsaplingsin those portions of our forests in which the trees have be taken that this mode culled out; but care must discouragement to mode will not be a source of or clash with the scone of thes of forestry, whole. If the Giovernment the question as a stimulate individual exertion, it will ping to be better than too long neglect; but Governments have yet to show that they are the most enterpris ingportions of the community. If an enterprise fails under the direction of the Government that is no prove that there would also have been a failure under private enterprise. Politically peaking, the magnitude of an undertaking bears direct relation to the number of office-seekers mongst the members of the party in power. The great objection to the scheme advocated such a law. Owing the difficulty of enforcing the timber, the most of $u r$ wal calling out of uriant with grass, and when it is that a great many farmers attempt to che cattle beast on every acre ofshelterless pasture, the temptation to turn the herd into the woods or grass and shelter would be so strong that the law would be as dead a letter as the lately passed act relating to the destruction of nox. ous weeds. Besides, large acreages of bush ands are already fenced in, and their profits as pasture grounds are amuch greatersum thanany ax that would likely be remitted. It would equire a whole army of Government officials enforce such a law. These remarks, how where a large percentage selled districts, wooded there is still lese orstrict is neasure Farmers who take no intere posterity cannot be forced to do so by lege posterit
lation.
There

There is another aspect of the questio which demands special consideration. Is the Lotally ignored? If not, what portion of the farm should remain wooded, and what area should be allotted to wind breaks? From which of the two systems are we to derive the chie timber supply of the future? The one question not be discused with the other that they can is to receive Govemalo other?
It seems to us that if private capital were invested for the maintenance of nurseries, sapplied of every description of trees could be sup sparely yery small cost, and planted either on as wind breaks ands, or in rows between fields system of planting could be established through out the Province, and such trees could be se lected and planted by experts in the busines and to the a adapted to the crimatic conditions and to the soil and aspect of the different local ities.
The commonest kinds of weeds which abound in Manitoba are wild buckwheat, lambs' quarand Canada thistle. The law relating to their
destruction is vigorously carried into execution

## The Exhibitions.

The Industrial, which will be held in Toronto 10.20 Sept., bids fair to be quite as suceessful as any previons show. It has always drawn an imnense number of exhibitors and visitors, and he managers are putting forth every effort to make the affair even more successful than any of itse predecessors. The British Association,
fhich will visit this continent in its official ca pacity, will attend thenent in this is probably the largest and most important body of scientists that has ever visited'this continent and it is expected that no less than one thous. and members will leave Earope to attend the annual meeting at Montreal
The Western Fair Board are making unusual exertions to make the London Exhibition nore attractive than ever. It has always been tions in Canada. Its convenient location and superior facilities have added greatly to its poo ularity. London is admirably situated witt regard to railway conveniences, trains arriving and leaving from and to all quarters at all times of the day, and the city is in the centre of one of the best agricultural districts in Canada. Fuller particulars will be found in our advertising columns.
The Provincial to be held at Ottawa from the 5th to 13th Sept., will receive $\$ 5,000$ from the Dominion Government, and this amount judi ciously applied, together with the Ontario Gov ermment grant, should insure grand success, and enabbe the directors to offer such a list of prizes as will create keen competition amongst exhibitors, more especially when it is considered reduced rates on the Grand Trunk Railway.

## How to Save the Manure.

 vo. 1.One of the greatest losses which occurs on the farm is the prevailing practice of treating the firm-yard manure. Before the farmer makes up his mind by which method he should restore the fertility of his land, whether by an im proved mode of manipulating the manure heap make a use of special fertiilzers, he shoul) curred, so that he will he as to the waste in as to the amount of expense he will be justified in incurring. Not many years ago the value of farm - yard manure based on chemical analy sis was ignored by our farmers, but now that artificial fertilizers, if judiciously applied, have been proved to be a profitable investment, the chemical standard can no longer be rejected; for if the farmer allows so much nitrogen, phos. phoric acid and potash to run to waste in the ketable prieyard manure, he must pay a marketable price, based on chemical annalysis, for these identical materials in the artificial form.
But the question to of the extra labor incurred in saving the pricm yard manure pay for an eqvivent in artifcial fertilizers? This is what we wish particularly to introduce to the farmer's notice in such a manner that he will be able to make calculations to suit his own particular circumstances.
Analysts have found that the difference be tween the values of the solid and the liquid exorements of cattle is but a trifle, the small bal-
ance being in favor of the solid voidings. Farmers usually urge that farm-yard manure is the
best kind of fertilizer, best kind of fertilizer, as it contains all the be sound logic providing noone of the constituents were permitted to run to waste; but some portions being more soluble and volatile than thers, it is plain that manure, under the existing mode of treatment, cannot preserve its well ticated d character. The urine of our domes ous compounds with potash and soda, and all the urine is acic wasted, so that our farm- yard manure is def cient in this most valuable part of plant deod The solids hold the phosphoric acid, lime and magnesia. It has been shown by analyyis that a ton of liquid manure contains $17 \frac{1}{2}$ lbs. of nitrogen, 10 lbs. of phosphoric acid and nearly 16 lbs . of potash. Counting each at the market price, it will be found that a ton of urine is worth 85.30 ; and a ton of solid manure, as be fore stated, has about the same value. A cow well fed will void four tons of liguid and en tons of soild excrement in a year, which ac $\$ 42.40$. At these figures it is no wonder that shrewd formers antisfed with the min of their stock as clear profit.
It has further been estimated that three. fourths of the manure in this province, under This stands to reason; for nearly ill thasted. runs to waste, and it is a low calculation to estimate that one-half of the remaining juices is washed away by the rains of an average season. Let us now reduce the average farmer's stock to its equivalent of cows, and suppose the number to be fifteen. These are auly stalled seven monhas in the year, and ounting from the data already given, it wil be found that the total loss amounts to $\$ 278$. Should the farmer think this valuation too high, of the loss too great, let him make a comparison between the above gures and the market price of farm- yard man he. Phe average pror livery.stable mannure bout $\$ 1.00$ per load or ton, and on the average of distances it will cost him , 5 c. to haul it But he pays $\$ 1.00$ for a load of manure of which three-fourths of the substance has been wasted, making the original load worth 84.00 without including the cost of teaming; and his amount is almost exactly $\$ 1.00$ per ton more than the chemical valuation, based on the analysis of the manure, reckoning a ton to be the solid and liquid portions mixed in he proportions in which they are voided. vilt thus be seer diar sit stalles at $\$ 1.00$ per manure for ion price than its equivalent in rificial fertilizers would cost. In other words, ton of barn-yard manure at $\overline{3}$ i. cents has the arme fertilizing value as is cents' worth of chemical fertilizers, and the cost of carriag would almost invariably be in favor of the atter.
For the beneit of those farmers who canl now calculate the profits that would accrue from neconomic mode of treating their manure heap, we shall describe the difterent sys tems of treal ment in our next paper.

Private Dairies vs., Creameries.
The existing practice amongst country store keepers of paying the same price for all classi-
fcations of bitter frem fications of butter from their customers has a easily and cheaply made than good the meal competition is in the production of bad butter The farmers who make the first-class article soon get to know that the storekeeper makes no diserimination in their favor, and they would be acting detrimentally to their financial interests if they continued making genuine stuff; but in some instances the storekeeper has made the desired discrimination, and the effect has been an elevation in the butter tone of the
whole neighborhood. whole neighborhood.
Before the age of creameries many farmers
had select customers in the surmund had select customers in the surrounding towns
or cities for the consumption of their butter, and in this way many a pound of giltedge and in this way many a pound or gile-eder
butter was made for which fancy prices were received. This led to the establishment and mprovement of many a private dairy on an extensive scale, out of which large profits were derived. The names of these private dairies soon became widely known, and their stamp was a guarantee of the superiority of the article. This was the natural system of improvement, and there was then no thought of diahonesst methods ; indeed, the system did not admit of any trickery. Creameries, government interference, etc., are now destroying the natural channels of the trade. Creamery butter has and brings from two to five cents a pound more than privately made butter. Supericially con. sidered, this appears to be a laudable result but the objections to the system are almost in. superable. Under private gilt-edge buttermaking there was a strong incentive to dairy improvements of every character, habits of cleanliness, quality of food and water, and many other items of a seemingly trivial nature, all having been of considerable importance in establishing the reputation and enhancing the proits of the dairyman, and the tendency wra to make fint mas pursuit. For all parties concerned this was the most desirable state of affairs that could be conceived. Under the creamery system there is a relapse to the shop. keeper principle. The tainted and the untainted cream is all one. There is a bidding for as many patrons as possible, and the farmer with the dirty, scrubby herd is usually the most anxious to become the leading patron, his milk or cream being put on the same footing as that of a superior quality, so that the tendency is again tow Creamery butter being the boom, private dairymen receive no higher price even when their make is of superior ruality, and the tendency is to degrade them to the level of their most reckless neighbor so far as the guality of their product is concernel.
Nor is this all. Both the system of selling cream and that of selling the milk to the cream. eries are attended with serious objections which
would take a volume to explain in detail. In would take a volume to explain in detan. Th
ddition to the danger of obtaining unhealthy milk or cream from diseased, miserably fed cows, under the management of farmers of un-
cleanly habits in their dairy operations, there in
the incentive to adulteration and all kinds of
the incentive to adulteration and all kinds of
trade tricks. There has not yet been a rule established whereby the advanced and honest farmer can obtain justice according to the in trinsic value of his milk or cream as compared with that of his neighbors, and in the cream system there is an uncertainty about the cubic inch method under a varying temperature, and other conditions, which method, however, i giving way to the more satisfactory but labori ous practice of periodically testing the actual
butter-making value of each customer's cream
butw- men
From the nature of the circumstances there cannot be a keen and healthy competicion tolerably uniform system of manufacture, and the patrons and herds in the neighborhood of every creamery are uniformly a mixture of good and bad ; but when the creamery boom begins to subside, so that there will be healthful com petition between the creameries and private dairies, the price of butter being again reg lated by the merits of the article, then we may expect another incentive to improvement in the management of our herds, including our pastures, which is the only permanent orerunn to the improvement of our dairy products. It is only by means of private dairying under personal effort that uniformly good herd dividual energy need fear no competitordivid thergy of asoled joint stock concerne
It must not be understood that we object to the establishment of creameries, or any other mode of competition, so long as it is free to all, and no undue advantage is given to any of the parties thereto; the creamery system has its advantages as well as its disadvantages, and if the objectionable features could once be overcome, there is no reason why it should not be able to go on its way rejoicing.

An
Agricultural Editor Lives on His Wits.
Some of the spheres shine by virtue of their own light; others borrow thei
There are people who could not earn their bread and salt, even when the times are booming, if they had not their wits to fall back on. In journalistic circles there are two styles of liv. ing on one's wits-one being the scissoring style, whereby the reader is left in darkness as to the source of the article he reads; the other is a scissoring style too, but the reader is given specially to understand that the article is from the pen, not from the scissors, of the
head.
There is a sheet in Ontario purporting to be a farmer's paper, published by "John Fer-
guson, M. P., Sole Proprietor." The mental guson, M. P., Sole Proprietor. The mental strain caused
after style No. 1, was apparently so great that any change would be a relief; and, moreover, the thing was getting too monotonous. In his issue of July 16 he tells his readers that our June editorial on "Dairy Cows," copied by him, was "Bya Contributor." We are not your contributor, John. While you are defrauding your readers out of an issue till your scissors come back from the scissor-grinder,
could you not profitably employ your time in
scraping the rust off your pen, and
our respectful letters? Eh, John? We do not tremble before you, John, as our rival, for very few farmers enjoy basking in borrowed light.

## Does Wheat Turn to Chess?

This question has been debated in this and many other publications, and all scientific men, whose views have come under our notice,
 many of our practical convinced of the correct ess of this doctrine. O he other hand, there re many farmers who take the opposite side of the question ; they declare with positive ness that they have sown clean wheat on perfectly clean land, and have reaped chess, but believe that they would have had wheat had the
hese remarks hav been suggested to us by the following letter which we recently re ceived, and which is fered or the purpose haps mystifying the haps mystifying the

SIR,-Being a subscriber to the AdVOCATE,
take the liberty of troubling you a little A few days ago I picked from a sheaf of wheat grown on my farm, a head of wheat growing
upon which is a spikelet of chess. The head is all perfect, with this spikeletgrowing on
it. Now, in common with most naturalists, it. Now, in common with most naturalists,
have always been of the opinion that wheat can never produce chess, nor can chess produce wheat, that like always produces like, is an
established law of nature; but this head o wheat has rather staggered me. I would feel obliged to you if you would investigate it, being a matter of public interest, as often as
serted as it has been denied. I think Mr. Saun ders, of your city, the eminent naturalist might possibly assist in the matter. I write this in advance, not being allowed to enclose
letter in a parcel by post.
Boston P. O., Ont.
In due time the parcel arrived and the head found to be as described, of which the accom panying cut is a true representation. -W have shown it to severnl experts, including our eminent townsman, N. Thers, and mos wave declared the spike spikelet occupies the space which should naturally have been filled by a grain of wheat, the chaff of such grain being perfect and in its proper position and there is no sign of any fungoid growth. We have not yet completed our investigation and meanwhile we should be glad to hear from scientists and practical farmers on this important subject. Mightnot the chess have been produced by inoculation? We shall sow some duce their like, and we should like to hand a few of the grains to some specialist in this a few of the grains
branch of science.

Women Farmers: Where are They ? We read about women's rights, the higher education of women, women in the professions, business, etc. ; but these questions appear to be getting exhausted in the hands of our ad vanced writers. The elevation of women to the profession of agriculture would mark the com mencement of a very important epoch in the history of their rights, but this is not the phase of the question upon which we wish to dwell a present. We could mention the names of amons women in certain branches of scientifi agriculture, such as botany, entomology, etc. which concerns us practically is typified by hose women farmers whose pleasing and in structive prize essays have appeared in the Advocate from time to time.
It would be instructive to inquire into the rigin and influence of our women farmers, here is no other sphere of life in whic women's influence has been more powerfully felt, or in which they have stamped such im pressive power. Our country's boast is that her sons of the greatest integrity and renown have sprung from the farm ; but we are negli sent in rendering honor to whom honor to we are apt or for on mothers. Thers rings in the breasts of our former "hard sons of rustic toil," who are now engaged in building up Canadian history, a feeling of pride s their minds revert to the olden times of the old forest homestead, when perchance the amily were cradled in a sap-trough, or pillowed on a sheaf in the harvest field,-not that vain glorious pride which too often swells the breasta of their compeers of more illustrious birth, bu pride in the recollection that their compatrio ave intrusted them to aid in moulding th destinies of a country which lheir from the Were been this is the natural incentive rimeval fores. to duty's call and brave duty's strife
Those were the days when husband and wife vere one indeed. There was scarcely an oper tion in field, barn or forest in which she wa not identified. Household duties became affair of after hours and rainy days. The coffee-mil performed the gristing for the more advanced farmers, and for the greater portion of the year all were strict vegetarians. The family hen and cow were more precious than the jeweller and when they became superannat was as savory as that of the most antwen the armer an the village storever, was the in its very incipience. There was scarcely a amily want, whether of victuals or coverin but was supplied by the busy hand and throug the never-wearying care of our mothers. An yet they still tell us that those were the proud est and happiest days of their lives. Then wese the pleasing days of the bright family circle. Times have changed. The good father and usband, burdened by the weight of years and cares, sleeps, not with his fathers far away To melled, , place, his spot and memory being endeared to every passer-by. How gracefully his yoke sits upon his once beloved wife ! Where is that family now? One member is the country
schoolmaster, being the successor of his brother, who is now practicing his profession or controlling the affairs of state. The means by mother-an inheritance of invincible courage and constitutional vigor, not that sordid pelf which is the mother of artificial eminence, or perhaps only a transient notoriety. Another member of the family has gone west to live over again the parental days of yore. The married daughter of the neighborhood still occasionally brightens the remaining members oi the family circle. The old homestead is still under the supervision of the mother with the aid of the younger boys, and the duteous young daughter is the joy and life of the househola. lessened her sphere of usefulness, While ber eighbor is wasting his time in talking up politics, or in other futile pastimes on the market or in the saloons, she busies herself in perusing her agricultural paper and applying, or instructing the boys to apply, the knowledge thus acquired to profitable occupations in the garden or field, while the daughter is taught Hower garden. Such is the brief history of
fictial ur typical woman farmer, and every loyal armer of Canada should seek to rescue it from oblivion, banishing the vile thought that great ands are to be despised because they ha humble beginnings.

## On the Wing.

In the latter part of July we spenta few days in the counties of York and Peel, to examine the centre of probably the best general farming and stock raising counties in Canada. We procured a horse and buggy, and drove up Yonge street as far as Mr. Russell's farm, at Richmond Hill. We saw Mr. Marsh's cele brated Southdown sheep, which all know are hard to beat. Mr. Russell is highly pleased with heifer calf from his cow that carried off the gold medal at the Centennial Exhibition a Philadelphia. He anticipates the calf will has many other calves that will be hard to beat if he exhibits, but perhaps he may no xhibit, as his aged and honorable father, old gentleman between 80 and 90 , with a re narkably clear and apparently sound head, peaks in very reasonable, mild, but convincin erms against the management by controllers of some exhibitions, and the furnishing of informa ion in advance to some from head sources, r. Russell's voice should be heard and heede y every one desirous of fair play. Whethe r. Russell exhibits or not, he has a stock horthorns that must command the admiratio is hard to surpass. We called at situated about 12 miles from Toronto--100 acre lay soil, a row of maple trees along the fence ide by the road approaching the house, and building about quarter the length of the farm rom the road. Farm buildings in good order farm is divided by four straight fences acros he farm; road in centre of the farm from dildings to rear end; no cross fences except the buildings and surrounding his test plot.
Three of Mr, Rennie's sons are on the farm.

We were shown into the test plot. Here w found Mr. Burgess, whose name has for many the most successful head of all competitors as carrying off all the lexhitor of mammoth roots, carrots, turnips, etc. H , prizes for mangela, but his energies are still devoted to monstrous roots. Roots of his growing have been sent to Europe and brought honors to our country. We find him at work raking an arti ficial manure which he has just sprinkled on the ground around the mangels. The manure was composed of guano and dried blood. The land is in fine tilth, mellow and rich, and we notice the rows are unusually wide apart, six feet, and are also plowed into unusually high ridges, Burgess very communicative We found Mr part a fund of inmicalive and ready to in and failures. He said it was from mista learned, and in answer to inquiries he said "This land is a hard, stubborn, plastic cley, and hard to work; I spent a great deal of har work to get this in its present order. It must not be worked or touched when wet. This ground and the whole farm are well underdrained and have been well manured. Ridges are made wide and high to keep the land dry and admit as much of the sun's rays to the soil as possible. The mangels, when in full growth stand four and five feet apart in the rows, the so as to leave the best and bive thined out pace they require to al thir leave. They are watched and attended like children, orerything they can take being supplied and insect guarded against." The farm buildings are near by. The year's manure is lying in the yard many feet deep. A drain from the bottom of this yard runs into the test plot; there is a receptacle for this drainage, from which it can be dipped; there is also a soakage from the pit running over a part of the ground. Close y where this liquid fertilizer is running are squash plants growing, they being well sup plied. He is devoling is attention to raising prize ofered for one in Toroto. The ger re thriving as well as the mancels and squest Mr. Burgess says that it is no use for farmers to try to raise turnips in Markham, or on stiff plastic clay soils; that the turnip fly is much more destructive to plants on clay land. Man gels and carrots thrive on such land, but Pickering and Whitby, and on all loamy an light soils, turnips thrive better than in this locality. Mr. W. Rennie, of Toronto, accom panied us over the other portions of the te plot and over the farm. Everything appeare We good order and grin grass and vegetabl plots. In regard to winter wheat, we have not much to add to last month's report except that here we see the Valley wheat looking promising We called at Mr. Nilliken's farm, near Hagerman's Corners. Here we found that a hail storm of unusual severity had fallen on his farm, completely destroying his wheat, oat and barley crops, breaking down the stra and threshing the barley out, cutting the leaves of the peas, potatoes, turnips wreck. it gels, and making a nost oss. We never saw such destruction caused by hail. The hail
stones, we are informed, measured six inches in circumference, and in some places were lying a foot deep on the ground. Mr. Milliken has our sympathy and that of all his neighbors, but sympathy only does not restore a loss to which why of us might be liable, and one against had their crops badly domath We called $W$. We called upon the Hon. D. Reesor, and at Jerseys luxuriating in their bourtiful pound the They really have good pastures in this part of Canada, at least where we saw the Jerseys. Well, you have yet to learn an unteachable les-son-- to produce good butter without good feed, or large productions without plenty of good nourishment. Mr. Reesor and Mr. Ralph furnish records of butter production that appear almost incredible to farmers who only judge an animal by its size, and can scarcely believe that it is possible for a cow so small, to produce 18 ibo. per week, when one double the size will not Mr. Ralph informed us that he had sold $\$ 30,000$ worth of Jersey stock since the boom. We next called on Mr. Jno. Miller, the oldest importer of pure-bred cattle now in Ontario. He is now advanced in years, but his energies and ardor in stock raising appear unabated, despite many reverses from sources from which encouragement should have been received. The way in which the old herd book was manipulated was not in conformity wit Miller as one who has done much good to the stock interests of this country, and a gentleman having a good knowledge of right and wrongone whose voice is deserving of attention. Mr. Miller, we presume, has the largest number of the finest Clydesdales to be found on any farm in Canada. He has Shorthorns, of which our space will not allow us to particularize. He
also has about 100 Shropshires, and a few Cots. wolds and Southdowns.
We next called upon Mr. J. I. Davidson, at Balsam, Ont. The scenery in this locality is un
usually grand; the land is high and rolling. WV usually grand; the land is high and rolling. . Wo
feel inclined to call this locality the Highlands of Scotland. Therich, flat pastoral lands, the clumps of trees and numerous orchards, the cultivated
slopes waving with grain, and a view of Lake slopes waving with grain, and a view of Lak
Ontario in the distance, make this a charming spot to those who have an eye for the beautiful and grand scenes of nature. In addition to
these attractions, we see the fine "Cruickshank" these attractions, we see the ine "Cruicks shank
strain of Shorthorn cattle on the farm, and a fine stock of Clydesdal e mares, colts and
horses. One of his Clyde mares produced horses. One of his clyde mares pros now
twins, both mares ; these two mares
have both fine colts by their sides, confuting have both one colts by their sides, confuting
the opinion of some that twins are apt not to breed. We paid a visit to his son's farm, who
has erected a barn that is the admiration of all has erected a bars $\$ 2,400$.
stockmen, and coid
We next paisit
We next paid a visit to Mr. W. Heron's
farm. Here we found Shorthorns, Clydesdale farm. Here we shrpshire sheep. A few
horses and
days days previously he had the misfortune
to have one of his buildings struck by lightning. Two Clyde stallions and the sheep he was pre-
paring for exhibition were in the building; the two horses were removed, but the sheep were
all burned. There had fortunately been a very all burned. There had fortunately been a very
heavy rain and water wasplentiful. About 200 men who were raising a barn about half a mile
may saw the lightning strike the building away saw the lightning strike the building.
They hurried to the spot, and by their exertions They hurried to the spot, and by their exertions
the main bu!ldings which were connected with
竍 the main bu ast in stack and low shed, were saved; it was almo3t miraculous how
ceeded in saving the other buildinga.

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## A Chatty Letter from the States.

 [ From ocr chicago corrbspondont.]Not a little confusion and some consternation was created here a short time ago by thearrival of several hundred head of western range cat tle affected with the so-called Texas fever whatever that may be; for it is a fact that some of the best veterinarians in the country are un oure of the disorder.
There was one lot of about six hundred and sixty half-bred cattle from the Indian Territory, which were sick and dying on arrival at Chica go. It so happened that the cattle came here go. a time when the receipts of cattle of all kinds were very large, and, as can beimagined the market for some time was very much de pressed in consequence of the scare. There was some reason for the advantage which the buyers took to lay in large stocks of cheap beef, but as subsequent events proved they made more of it in depressing values than was fair to the selling interest. About tha prices cqually cood as one year ago, wioh prices equally good as one year ago, which wa than two weeks the market for that kind of stock declined at least $\$ 1.50$ per hundred pound gross. Of course other grades of cattle stffered somewhat in proportion. To return to the sub ject: The cattle that were condemned as unfit for food in the drove mentioned above, num bered over four hundred head, and the total loss to the owners was not less than $\$ 15,000$, while the general loss in shrinkage of values in consequence of that shipment being on the market, was beyond computation for want o reliable data, but it was very great. The ani for human food, some 000 head in all right placed on the local meat markets ald were time caused quite a stampede among beef eat ers. The papers had so much to say about the sick cattle that the mass of the people almost stopped buying beef for two weeks or so, until they thought the questionable stock had been entirely disposed of. A rigid inspection was passed upon the beef, and the health authorities declared that they had not allowed any but sound animals to escape their notice, but at such times the people ace wonderfully sceptical.
Nothing further came of the Texas feve the in the pens every day about that time, there was not one single case of the disease spread or communicated to other animals. There is something curious about the disorder in this respect. Apparently it never in the least affects native Texas cattle, unless there is a infusion of improved blood. The very cattle which suffered recently only had abont one eighth to one-fourth Shorthorn blood in their veins, but that muchremove from the native Tex. an seemed Men fiected cannot comnmicate the disense to thers, that it is ouly contracted by improved or northern cattle coming in contact with those direct from the far south. In other words the cattle native of Texas are never affected in
the least, while at the same time they seem to be the only kind capable of spreading it among other cattle.
During the past year immense numbers of through Texas cattle, numbering up into the hundreds of thousands, have been headed on the trail for the Territories of Wyoming and Montana and States of Colorado and Nebraska, ast numbers of them have reached their des ination, but during the recent hub-bub about exas fever, the two first named declared a The princinal Vyoming and Montans ' ane why hutting their gates to the young cattle that were traveling north to growinto than they could make in their native clime was because those Territories have been laboring under the notion that sooner or later they would be able to have their cattie passed free by the Canadian and English authorities and taken directly into the centre of Great Britain to be used for store stock or to be slaughtered at interior towns and cities, as the circumstan ees might seem to warrant. It is true that Wyoming has taken the lead in framing laws or the sanitary protection of her stock, and the the other States that Territory haveurged upon United States the importances, and upon the for the ample regulation of disorders of all inds that might arise among stock. It is avorite notion of many of the people of those northwest territories that they conld furnish Great Britain with good store cattle that would make both buyer and seller plenty of money, and since it seems impossible yet to raise the British embargo against American cattle as a whole, they have a fond hope that by very igid inspection they may be able to be specially favored, and gain admission into England hrough Canada.
The matter has been very thoroughly canhave large some influential Englishmen who caused thematterto harests in yoming have ing in the mother country, butitdoesnotseemat all probable that this consummation, so devoutly to be wished by men who have cattle upon a thousand hills in the northern Territories, will be attained. It would bea very special favor indeed if Great Britain should continue to igore the entreaties of the cattle men of the whole country, and single out one or two sections for exceptions to the general schedule. Favoritism to the sections that have such good inspection laws, however, would be an effective put into practice in the othersections passed and doing that kind of missionary work If sosh as a large field in which she might work this continent.
A few days ago, when $\$ 7.00$ per hundred was abut the top price for the best heavy export attle, Col. J. D. (iillette, the celebrated feeder of Logan County, IMinois, had on the market wo car-loads of $1586-\mathrm{lb}$. cattle, which sold at 5.35 as soon as shown. In age they were wenty fonr and thirty months old, and that were never fed buything but plenty. They corn or maize, and all of the finest blue grass they could eat. Of course this is a great plenty,
eves are fattened on more of a variety, and asroots, oil-cake,etc. Asyet the farmersand feed rs of the WesternStates havenot paid anyatten ion whatever to the value of the last named inds of fattening material.
There seems to be much complaint amon sheep raisers about the lack of profit in their business this year, but the complaint is largely confined to men who have too many low grade heep to give them all the proper care, or men ho never give anything the care it ought to ave. It is true that wool has been of discour agingly slow sale, but the lot of the painstak g, industrious sheep farmer is not worse no then is the lot of men in many other kinds of ben in trying to restore the wasted by sheep ' 67 . If the Republicans year, the protectionists may realize a heir hopes, but it does not seem possible that he wool men can consistently get any relief without giving it to a dozen or more of the ther industries, and it certainly is not likely hat there will be any restoration of the general ar-tariffs
There is more money now in raising good utton sheep than in many other kinds of in dustry. It may not be generally known, but the various kinds of meat commonly in use, utton has decidedly the highest per cent. of triment in it. This is a fact which farme num bear in mind the casy to kill a mat an thereby be provided for the farmer's table ithout danger of having a large amount apoil Fesh mutton is often a very agreeable and rofitable change in the summer time from salt pork and dried beef. The phrase is somewhat ackneyed already, but it will do no harm to epeat that every farmer should keep at leas few choice sheep.

## Feeding for Records

Next to our fat stock show and pedigree humbugs is the prevailing practice of stuffing Honest records are just the thing we want ut when a man or two has to be employed to en on the constant watch day and night lest he poor cow should exhibit the faintest symp oms of hunger, and to keep a bin of nostrum and condiments in the adjoining stall, super vised by a veterinary, for the purpose of coar g the appetite and converting every possible ecrection and excretion of the body into milk When the service of science is invoked to figure out if there is any conceivable flaw in th time for the deluded pulie to betin to think of making incuiries into the cost of production, as well as the question of the ruination of the cow and her offspring, if she should chance to have any. The plant is nature's chemical laboratory; but there is no reason why the animal should be converted into one; at any rate our record crank should first tell u whether he wishes to compete with the labor tory of nature or that of the professor chemistry

A farmer in New York State has a fat ox
weighing 3,570 pounds. The owner traced his

Seṕt., 1884 of a variety, such the farmersand feedof the last named
h complaint among of profit in their oo many low grade proper care, or men e care it ought to has been of discour. ot of the painstak. $r$ is not worse now ny other kinds of ing wasted by sheep he protective tariff are successful this realize a part of
seem possible that ntly get any relief ntly get any relief
en or more of the tainly is not likely ration of the general w in raising good other kinds of in. nerally known, but commonly in use, ighest per cent. of fact which farmers easy to kill a matthe farmer's table
the large amount spoil. very agreeable and very agreeable and phrase is somewhat vill do no harm to ould keep at least

## ecords.

show and pedigree practice of stuffing producing recorks. $s$ to be employed to day and night lest the faintest symppa bin of nostrums oining stall, superhe purpose of coaxting every possible the body into milk, is invoked to figure ivable flaw in the ration, then ot is ic to begin to think cost of production, e should chance to nature's chemical reason why the d into one ; at any hould first tell us oete with the laborthe professor of

State has a fat ox owner traced his

## The Fiarm.

## Fall Plowing.

Of all tillage operations fall plowing is the most important. Amongst practical farmers there are advocates both of deep and of shallow plowing. A great deal of fruitless discusnion might be avoided by taking the different circumstances of cases into consideration. These may not only be applied to different sections of the country, but also to adjacent farmers, and even to different fields belonging to the same farmer. Perhaps the tiller's main object is to destroy weeds; it may be that he wants to increase fertiity by tillage; possibly of the coming crop, and wishes to reserve fund of the natural fertility for posterity. The character of the soil and subsoil is also an important factor in the consideration of the question.
If weed seeds are numerous their destruction is always desirable, and a knowledge of their vitality is indispensable to success. If the weeds have shed their seeds before the crop is removed, the best remedy is to encourage germination, and this end will be defeated by early and deep plowing; and if they have grea vital strength, they will remain intact unti they are plowed to the surface again. Even will frequently not destroy their vitality; but if they are kept on the surface, or if the soil is but superficially stirred, where they can get air, moisture and a suitable temperature, they are then in the best condition for germination after which deep plowing will be death to them. On the other hand, if the weeds do not seed be fore the harvest is removed, the seeds are pretty sure tofind their way back. If left in the straw, and the straw used as litter, our farmers do not pay sufficient attention to the fermentation of the manure heap for their destruction. If the seeds are fed with grain to the slock, the same
difficulty arises, and even when they winnowed out of the grain they liey are get back to the fields in some way. If the weeds are propagated by their roots, then there arises another subject for debate, frequent tillage, deep and shallow, with little or no man ure, being the surest remedy.
But the farmer who keeps clean fields, no being pested with crop robbers, should join different debating club. He needs no vigilance committee; his work, whether in debate or in the field, is progressive. If his subsoil is rich his best plan is to manipulate with as little to the por possible, applying the manure bring up subsoil to the surface by degrees, either by deep plowing or by subsoiling. Early fall plowing under such circumstances has a double advantage; it leaves a longer period for the weather to exercise its disintegrating effects on the rocky fragments of soil, and the vege table natter being more completely decomposed, the process of nitrification, or conversion of
the vesetable matter into plant food, takes the vesetable matter into plant food, takes earlier effect in the spring. From these circumstances it will be seen that it is des exposed obtain the greatest possible area of exposed
surface; also to cover the vegetable matter as completely as practicable. If the subsoil is sandy, or otherwise poor, the soil cannot be im-
proved by deep plowing unless great quantities of manure are applied, or the green manuring system resorted to for the purpose of increasing the amount of vegetable matter, and in such cases claying and liming would be a profitable under-
takingin districts whereland is valuable, theaim aking in districts where land is valuable, theaim loam. Another beneficial effect of etion of a cultivation is the thorough mixing of the and manure, and this is most effectually accomplished by tilling in as many directions as possible: but in debating the question, the as pect of the field and the drainage play an important part. Care should also be taken that as much wet land as possible be plowed in the fall.

## Condimental Foods

The considerate feeder of animals will study their tastes, their likes and dislikes, and try to render the food aggreeablê. He well knows that the pleasure of eating adds to the thrift or production of the animal. It does not depend wholly upon the nutritive qualities of the ood, but also uponitsagreeablellavor. Mere flaoring not diffielt to to bine foods as to render the compound very appetizing. Those condimental foods which are so lauded, and for which such remarkable claims as to nutritive uality are made, are generally compounded mostly of cheap materials, and then flavored to suit the appetite. They are then advertised as having a wonderful nutritive power, and as curing all the ills that animal "flesh is heir to." They are made up of materials that every feeder has within easy reach, and are usually sold at six times their real value. They are each and all such manifest humbugs, when they contain so ittle, and so much is claimed for them, that we have oniformly refused formers into purchasing hem, at their extravagant prices. Dr. Lawes, f Rothamstead, fully exposed the pretensions of Thorley, of England, who had been deludng English feeders for years. He showed that the real value of his compound as a food was only about the same as corn meal, although it sold for $\$ 8$ per 100 lbs . And this seems to be the standard price for all the mixtures in this country. Eight cents per pound seems to be just the figure thal satisfes when we endors of condimental 1 ansiddition of over five hundred per cent. vould seem to be a liberal profit.
All animals are fond of sweet foods, and most of these condimental compounds in England re rendered sweet by using the locust bean, hich contains a large amount of sugar; and our compounders may import them for thit purpose, or they may use a cheap molasses or
We have no doubt, from our flucose sugar. We have no doobt, from our experiments, that cheap molasses may be use a a proitable. In fattening cattle, one quart of molasses, dissolved in two gallons of water, is sed to moisten the short-cut hay for four teers, and then the meal given is mixed with his. The sweet water flavors the mass, so that they eat it with great avidity. It must be admitted that the highest, skil in feeding consists in knowing just the righ a
of food to the animal, and this requires a care-
ful study of the quality of all the different foods ased for, or that may be used for animals. And this requires also a practical knowledge of lavors. But besides this the feeder should know the effect of different foods upon the animal stomach, whether laxative or constipat. ing, sedative or stimulating, etc. In other pound a condimental for fow and not subject himself to paying four pri for the want of this knowledge. The princial advantage derived from the use of these compounds comes from the palatableness and laxative elements. Animals generally saffer more from constipation than any other one source; and it is by reason of this that we have so often ad vised feeders to use a little oil meal, or, better still, 5 or 6 per cent. of flaxseed, ground with oats and corn as a food for horses especially, and also for other stock. This also improves the flavor of the food.
We give a formula for a condimental food equal to any of the high-priced articles in the market:-

here may be a great variety of form but this is a good one, and will give satisfaction. If we were to try to improve it, we would make the oil cake 20 lbs ., and add 5 lbs . of flaxseed. And perhaps the cheapest glucose sugar might be substituted for the molasses, and then all the articles could be ground ogether in the dry state.
This would facilitate itsmanufacture for commercial purposes. This compound could be quantities. The most beneficial ingredients in this combination are the oil meal, flaxseed, and sugar or molasses. As we have often said, the feeder cannot err in feeding too great a variety of food, and the more palatable he makes it the greater will be the gain and profit of the mal.-LNa. Lire-stock Jorrmal.

The Nutional Live Slock Journal says: "We wish to call the Western farmers' attention to the fact that Western horses are found less able o stand work on pavements than Canadian Eastern markcts this is attrilu, and that in the al use in the West of corn as food for the young horses, while oats and peas are fed nostly in Canada as grain food.

During the last ten years there have been Wut three crops of corn in the U. S. that hare pring wheat is higher than in any year since 1577. The average for oats is a tifle lower than in 1583. The potato yield is 10 per cent. wer than last year.
The wages of farm laborers in Manitoba averge 823.50 per month, and female servants age 823.50 per month, and female
$\$ 11.00$. Both are in active demand.

The Editor at Home. Having been frequently asked for my photograph, I now make an attempt to satisfy the applicants by furnishing them with the accompany ing sketch.
On my right may be seen one of my principal contributors, Prof. L. B. Arnold, whose researches and writings on the dairy have done
so much good to that lucrative industry. His so much good to that lucrative industry. His authorities in the world at the present day His knowledge is from practice with the application of science. Every really good dairyman must be aware to some extent of his merits.
in my journal without my seeing them. Twenty trees. There appears to be a belt of country years of editorial work, after twenty years of extending from Arkona to Lake Huron that is hard farm work in Canada, have, I trust, been better adapted to fruit growing than any section of some service to you, and I hope the useful- we have visited fifty miles west, thirty mile ness of the Advocate may long enntinue.

## On the Wing.

(Continued from page 261.)
On Dominion Day we took a trip into the and in this county, considerable that of good light quality, lying on a quicksand bottom, and some that is a plastic heavy clay and lies low and wet; but in time this land will be drained south, thousands of miles north-west and hun dreds of miles east.
Here is situated Mr. B. Gott's nursery. His ground appeared to us almost too densely cov ered with trees, and shrubs and fruits of all kinds. He has his ground in excellent order, as far as keeping free from weeds appearance really looks charming when com pared with nearly all the nursery grounds we have visited. But, this being the strawberry


The Hidor's Residential Library and View from the Window.


#### Abstract

No doubt you have been benefited by his labors, and will be pleased to see his portrait On the left is seated Minnie May, who con ducts the household department. Many of our lady readers and the young folks will be leased to see her The view is taken from the library window at my residence, from where $I$ see the beautiful view before me, which is considered he finest s done, but as work yearly increases I refuise rere asistants, my health requiring more rest; therefore some things may and do appear $\left\lvert\, \begin{aligned} & \text { is } \\ & \text { houses can scarcely be seen through the fruit }\end{aligned}\right.$ and made very productive. The part we no call your attention to is in the vicinity of Ar kona. Here the soil is loam-some of it is clined to sandy loam, other pieces to clay loam it is porous, and in some parts stone is found below the surface. In this locality the land and climate appear to be much better adapted to fruit growing than most of the land of Western Ontario. Here we find large cherry trees of the best variety, such as do not thrive in many ocalities. The peach, grape, and all small ruits appear to thrive here, and the apple rchards are quite a feature. Some of the land rolling, and on some of the side hills the season, we anchor ourselves for the time being on Mr. Hiltorn's farm, cne mile from the vil age. The farm consists of about 150 acres H. a go, and elderly couple they now are. We know but little about their doctrines, but from the Quakers we have come in contact with, we hold Quakers we have come in contact with, we hond from transactions we have had with them. The introduction of the Democrat wheat was speak about Oneof Mr. Hilborn's.sons devotes his principal


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THHE FARMER'S ADVOCATE.

| attention to the farm, while another, Mr. W. W. | During the season the pleasures of the family |
| :--- | :--- | :--- | Hiltentiorn, devotes his attention to fruit. Grow- are greatiy increased, and the use ond ing the strawberry is his especial care. He has food is so much reduced that it is Aound er pare about sixteen acres in strawberries, having to raise strawberries for tood. Anotant supply about sixty different varieties growing. He importan feat fruit the health of the family is procures all the kinds he can hear of, and ${ }^{\text {of good rese }}$ increased and the doctor's bills reduced, and gives them a fair trial on different soils, and the undertaker is kept from the house for many gives them different treatment. He is careh and observant, and we consider him the highest authority on the strawberry we have ith anyone -at least, we have never yet much information who has given us half we seen such exabout them, nor have we seen such Can tensive plantations is that he has made more ada. He inf ef Crescent Seedling than an money out of the reply to our queries, he said other and consider it a hardier and better berry than the Wilson, but he said it ripened earlier, than the quart of early berries brings more

The Dairg.

## Beef and Butter in One Cow

by prof. arnold.
The following remarks and question are an extract from a private letter, but they seem so worthy of consideration by other dairymen as well as the author of the letter, and likely interest the general dairy reader, that $Y$ lor justified in placing them, win's and your discretion, omiding thal ocation further than to say that he is a personal acquaintance wivelihood by supplying special and maksors, in a near-by city, with fine butter the year round :
the year round:- " By following the advice you gave me last spring, to pasture less and soil more, the result is turning out greatly to my benefit. I broke

the picking is dune up fully me-quarter of my pasture and put sume
and the or three in the middle of the tion is expediten, ame plants or berries. season. Mr. Hilborn wishes to procure the earliest and latest varieties. His main cop finer for the season is the Danie-an least it suited our palate better. But for flavor the Prince of Berries appears to have two or three times the real essence of the strawberry flavor in a small berry than can be had in a large one of any other sort. We give you Mr. Hilborn's statemen full regard to the different varieties, but for full particulars and mode of cul it on application, as his catalogue; he will sen berries. he sells plants as well as berries. The advantages of raising straw by farmers not as yet sufficiently app not time to devote to
We know that many have no cultivation, where
We know that many with straight cultivation, where gardening, but with straight cu making the rows mu
the horse can be used, and by mar is greatly reduced. tle. h as did $12 \frac{1}{2}$ pounds the live weight of

Don't cultivate more land than you can tin ad manure well, and keep thoroughly clean. Of the different kinds of roots, potatoes are most liable to injury by frese because carrots and carrots stast of their root beneath the surface Parsnips can be left in the ground all winter, and are rather better for some freezing. Sir J. B Les says that of dry food eaten Sir J. B Lawes it has been found that these animals by sheep it has been in in increased weight 12 per cent. hile cattle only laid up in increased weigh cent $5 \frac{1}{2} \mathrm{lbs}$ of dr s increased the live weight of sheep
 well-roten manure inad on sowed it with bur ley und oats for early feed. Another part was put ins the rest to fodder put int The liberal supply of feed this has given me peverted the customary shrinkage of milk in the heat of summer, and which during the late dry weather has told heavily in the dairies all around me. In fact, there has been no falling off in my milk except the natural decrease on account of distance from the the of calving. The better supply of feed, and the greater comfort from being more of he and the stable in hot wacher fies well as hot away from the annoyance of hies as wield that I sun-has so inceastain I shall this year make now less than 25 pounds of butter per cow more than I have been getting from the same cows
before. This from my 17 cows gives me an extra 425 pounds, which at 35 cts. a pound-the price I am now getting for all I can make-is $\$ 148.75$, or, say an even $\$ 150$, which is not a bad addition to a small farmer's income. This has been done without hiring any extra help and with a very small increase of labor, and that small increase, I think, has been fully balanced by the greater quantity of skim-milk
for feed and the better condition of for feed and the better condition of my cows clear gain. Another item of some imurer to me is the fact that my butter has given ter satisfaction to my customers, thereby strengthening the good reputation by which I get an extra ten cents a pound

The larger amount of fodder produced by cultivation over what could be got by grazing the same land, is giving me more than my stock can consume, and warrants me in adding another cow to my herd to give milk in the com ing winter. It is in respect to this addition that I sat down to write you. Yesterday took into my buggy a friend whom I consider a good judge of cows, and we "sailed" round Of the number we examine the place in in good time for winter milking and wer satisfactory as milkers and in respect to age etc. In estimating their value as milkers, friend and myself were well agreed, but we differed so widely in regard to the beef-making value of one of the animals, that after an animated, and I may say a tencious discussion over that item, we finally agreed to submit the point at issue, with a statement of facts, to yourself, as an ultimatum in dairy matters, for be the more to which of the two cows would facts as we proftable for me to purchase. The question are both grades, one a two cows in other a Jersey, both born in 1850 , the Sher horn in the spring and the Jersey in the follow ing October. The former is a large and beauti ful animal, weighing, as we agreed, when i ordinary condition, 1,300 lbs. The Jersey has nothing handsome about her but her head, and, we judge, is 500 lbs . the lighter. Both are in about the same condition. The larger cow gives the greater mess, but the other gives richer milk. Judging from appearances and the best information we could get, the two cows would pears hence, either one would make 300 bs of year-a satisfactory yield as I consider price of the larger heifer is $\$ 60$, and of the other $\$ 50$. Assuming that it is to be kept in my dairy not less than six years, which one had I better take? Your opinion, with reasons, would greatly oblige. Yiours, etc.,
Avswer.-In replying to this 'fuestion, have no hesitation in saying I would prefer the Jersey grade to the Shorthorn at the same price. They have each special merits which are to be taken into consideration. The large
cow upon leaving the dairy when ten years old cow upon leaving the dairy when ten years old, there is worth more than the small one, becatlo quality and in better form, but she will better inferior to a younger animal As a basis for making beef she may same sort worth three cents a pound, making her value
when she goes out of the dairy, $\$ 39$. A little ten-year-old Jersey cow, or any other little old cow, for that matter, after being worn out in the dairy, I consider nearly worthless as a basis case would cover the actual value of the smile cow, making her worth $\$ 12$ when she leaves the dairy. Difference, $\$ 39-\$ 12=\$ 27$. Jersey butter is as much better than Short horn butter as Shorthorn beef is better than Jersey beef. There is a difference between them of three to five cents a pound, and often make the. Suce both cows are supposed to year for six quantity of butter ( 300 lbs . year for six years $=1,800 \mathrm{lbs}$.), it would only should be 1 the butter from the Jersey grade to make it balance the difference the other values of the two difference in the quality of bupect a wider that the two animals are fair specimens of their amount, each butter is each being equal in same weight of food for its production-but the large cow will require the most food for sup porting herself, but large cows do not eat as much in proportion to live weight as smaller ones. Just how much less in proportion they require than smaller ones I do not know, but it is not much less. We will suppose, in this case, that the larger cow will require two pounds of hay a day to sustain 100 lbs . of live weight, and that the smaller one will require $\frac{1}{2}$ lbs. of hay for sustaining 100 lbs .24 hours. The actual difference. it is very certain, is less At this rate the large sure to allow enough. of hay a day, or an support her, ar ' +1 small cow 20 lhs ood, to Difference in cost of keeping per day 6 lbs hay, or its equivalent. For one year it would he $36.5 \times 6=2.190$, and for six years it would he $2,190 \mathrm{lhs} \times 6 \quad 13,140 \mathrm{lbs}$., equal to 6.5 tons. Whatever this amount of hay is worth per year to convert into tutter, may be condered the difference in the cost of keeping, or other words, it is what it would cost you to hrger cow extra 00 los. of live weight in the of that time ne years, to be used at the end basis to derive beef grom, beef, but only as a pound, or $\$ 15$. The value of the extra 3 cts. a at $\$ 5$ per ton for the hav, or its equiveeping ther food, would be $6.57 \times 5$, 832.5 ald the s difference in the price of cows and round interest for six years, we have $\$ 3285$ $\$ 7.18-\$ 40.03$ as the extra cost for the larger ow at the end of the six years you propose to ecp her. It is more likely that the value
 hutter withed, as it would be converted into the beef cosf $\$ 65$ extra cost. This would make steen prico to pay for $.15=872.88$, a pretty When cows give milk, 500 lbs . of old cow cheese, in proportion to or produce butter or the cows the more profitable they, the larger ause they cost proportionally less to be, be panien (nes, fut when weight is not accom panied with a corresponding milk product, Sod
Iodern Dairying-Making the live cow com. te with the dead hog

Care of Stock in Winter.
The National Tribune says:-Although the wisdom of housing and properly feeding stock during cold weather is somewhat of hackneyed subject, it is one of such vital im portance to the interest of farmers that no apology need be made in referring to it again and urging upon our agricultural readers the necessity of preparing. even at this early eriod, for the forthcoming winter. The continually bear in ming stock of all kinds, the comfort and welfare of the what tends to his care, adds directly to his animals under various ways. In the first place he accunt in bear in mind that while an animal is not grow ing and laying on flesh, he is actually losing on him-every moment that animal remains in a state of stutu quo, his owner's money is not only idle, but is diminishing. The only way to profitably handle cattle is to keep them growgh from the start until they are finally dis. posed of. The idea which seems to have taken ossession of many farmers, that all that is reuisite is attained if they manage to keep their hed at brogh hinter, should be bannd stunted , ood and care during the following amount of reaches far above the cost of a year which buildings and sheds for their shelter in the winter. And, then, what more wateful the tem of feeding can be imagined than hauling a load of fodder into an open field and leaving it there for the half-starved creatures to fight over, trample under foot and foul with their excrements? By this manner of feeding just about one-half of the forage consumed, the other part being let on the ground to rot, or blow away, as the case may be; whereas, if'the proper shelter and racks were provided, every mo di, ful would be
available. Another point, be lost sight of, is the can be saved by stabling and the mare tha increase of crops the following year
Every farmer knows, or ought to know, that the manure dropped by stock on the ope rain, is of little to the action of the frost an is hauled out and spread upon the ground at the proper season. In regard to milch cows does any reasonable man suppose they are paying while standing around in the mud and now, picking up miserable sustenance from the straw stack, with an occasional armful of fodder or a few ears of corn thrown to them? high pricy time when butter is commanding a high price he has none to sell, and if he man white stuff can hardly fogether, the insipid were these cow fed, their product would add no reasonably amount to the farmer's income.
A word, too, in regard to colts. It is an ming invariable custom to let them pick nd the consequenee is triat when straw stack, instead of being in prime condition to be turned into pasture, they are a disgrace to their owners with their watery eyes, week knees and shaggy oats.
(3)arden and (S) rehard. $\left\lvert\, \begin{aligned} & \text { cultivation of the gooseberry. The gooseberry } \\ & \text { flourishes best in a rich, deep soil, moist but }\end{aligned} \begin{aligned} & \text { them to do so, but now is the time to tell your }\end{aligned}\right.$ flourishes best in a rich, deep soil, moist but sons' boys. Imagine how the boys would enjoy
not wet. An open airy situation is best, with cracking nuts from the trees which they not wet. An open airy situation is best, with cracking nuts from the trees which they
an exposure that will protect the plants as
planted with their own hands, or raising an exposure that will protect the plants as
much as possible from the scorching heat of summer. Cow manure, well rotted, is best, every crop in the fields might have bid de especially on light, warm soils. The goose- fiance to the storm by this time, and these berry is a plant that requires liberal mulching. attractions would be a powerful incentive to keep the boys at home. Don't wait till the government official comes along and offers the boys a penny for gathering the nuts.
Farmers who approve of profiting by our instructions in forestry, should not be idle this fall. If they now fotlow nature's lessons they
can make no mistake. Nature plants the

## Pear Blight.

 can make no mistake. Nature plants the The rapid increase of disease amongst ourseeds when they fall, and she never trans. seeds when they fall, and she never trans.
pruit trees has given rise to specialists in the
plants. There is more certainty in planting the
science of investigation as to the causes. Th plants. There is more certainty in planting the soience of investigation as to the causes. The
seeds of nut-bearing trees than in purchasing ascertaining of the cause is not always followe the young trees from a nurseryman, and it is by the remedy; but experience proves that the also cheaper. Get the nuts fresh from the oure is either not far behind, or that no cure is trees, and if we have no time to plant them possible, thus doing away with a great deal of now, they may be kept moist for a few weeks unnecessary speculation and experimenting.

The New York
which is in advance
which is in advane
of the times in mat of the times in ma
ters pertaining to ters pertaining to
the interests of the farmer, has jus completed a series of experiments relating to the cause of pear blight, con ducted under the supervision of Prof.
Arthur, Station Bot. anist. A disease anist. A disease
pear orchard was pear orchard was
visited, and amongst the branches, viscid, yellowish drops were found exuding from the stem. This fluid was con veyed to the branches of a healthy pear tree, needle puncture about an inch from the extremity. In six to eight days every branch so in. oculated showed
industry gooseblehit.
in sand or sawdust until they are planted. Every farmer could make the foundation of a nice little nursery in a day, which in not many years hence might bring more profit than all the rest of his farm. They may be planted either in the spot in which they are intended to grow into large trees, or in a garden or nursery, and the saplings afterwards trans planted, care being taken to keep the land clean while they are young. Two years atte planting is the best time for transplanting, or third winter and transplanted in the spring. Just fancy what a fine and profitable little fruit-bearing forest you would have now if the boys, eight or ten years ago, had gathered their pockets full of nuts, when they were hunting the cows or chasing the chipmunks, and strewn them over a portion of the field! The boys will some day regret that you didn't tell
enough evidence to prove that th
also be communicated in this way.
also
It has thus been proved that the blight is in
fectious and may be transmitted by inoculation,
fectious and may also attacking other pomaceous fruits, as
it also attacking other pomaceous fruits, as
the apple, quince, English hawthorn, and June
the apple, quince, English hawthorn, and June
berry. The diseased tissue was also examined
under the microscope, when it was found to be
swarming with bacteria. This experiment fur-
nishes another striking proof that the diseases
of plants, like those of animals, have their ori
gin in living germs which rapidly multiply.
These blight experiments are being continued for the purpose of ascertaining
mode of propagating the disease.

## Varieties of Strawberries.

## by w. w. hilborn.

Mrs. Garfield.-A seedling of the Crescent, originated by M. Crawford, Ohio. Plant is healthy, hardy and productive on good strong clay loam, but does poorly on sand or light soil, season medium, fruit large, roundish, slightly conical, never misshapen. While its largest berries do not much exceed the Wilson, it very superior flavor; color bright glossy red very superior Crescent skedung. - This was first to ripen, and is no drawbery brilliant scarlet in color. The fruit colors on all sides at once, so that all red berries can be picked ; is quite firm and most profitable as a market berry of any variety yet fully tested; does well on all soils; blossoms pistillate.
Manchester. - This berry is gaining friends wherever it is known. It is a very rank, trong grower, blossoms pistillate, of good quality, large size, regular form, bright red color, ripens late ; very productive on all soils Jumps Vick - After fruiting this vati
very unfavorable season (it has been viety this all the time from early spring until after the fruit was gathered) we have been favorably disappointed as to its size. It has averaged fully as large as Wilson, and produced more fruit. By keeping it in narrow rows and giving good ultivation it will produce a wonderful crop of fruit, of tine, regular form, and ripens so much at once that they can be pi ked very fast. $\mathrm{Th}_{\mathrm{e}}$ plant is a model of perfection in growth and this respect ; ripens quite late; a good market sort, but if left to grow in very wide rows it does not bring its crop to perfection, as it sets nore fruit than any other sort we have grown. Capt. Jack.-(irown on goodstrong soil, is one of the best late market varieties; blossom staminate, a good sort to fertilize Manchester and Daniel Boone; it is very productive, good ize and form; does not do well on sandy soil Mr. Vernon.- H his is a strong grower, very prolinc; does best on clay loam; fruit large, color; good flavor; blossoms staminate; fruit ripens very late, which makes it very valuable as late fruits bring the largest returns.
Early Cinada-Is very promising as a early market berry; its greatest defect is that it blooms so early in the spring that it is apt
to bekilled by late frosts; when it does escape the frost it will ripen before the Crescent; par-

ties that had it this season in favored localities realized 25 c. per quart for their first pickings; but when the frost does catch the first blossoms will not be as early as Crescent;fruit will not me to perfection in quite so short a time; it ductive; plants very healthy; blossoms stamin | ate. |
| :--- |
| Pri |
|  | ated tong E. W. Durand. It is a very rank foilage does not sun-scald, blossoms perfect



The accompanying cut gives a true representa tion of the form of the fruit. Superior to any berry known in flavor or quality never tasted a wild berry equal to it in flavor It is very late, and not apt to be killed by late spring frosts. Should it prove as productive as spring-se
valuable.
W
market berry hany.-Is still a very profitable than many of the above to make it pay well. Daniel Boone.-This is a new berry that gives promise of teing one of the most profitable for market or home use of any of the many now varieties lately sent out for its season, which is medium ; fruit of large size and pro duced inabundance; form elongated, conical; it is and not apt to fade : flesh firm and of good

uality; better in this respect than most of the We have this season , blossoms pistillate rows, taking all berries ripe that would aver ge larger than any other sortwe heve aver picked in the same way ; plant a strong, healthy
grower on either siand or clay
be tested by every one who grows strawberries either for home use or market. The accom. panying cut represents this berry
The above ten varieties are the best and we have tested ; there are many that have some good qualities but do not combine so many points of merit.
Gol. Defiance.-For homeuse this is very fine; it is a very pretty berry; large even size; bright red fruit with golden seeds ; they have just enough acid in them to make them taste just right wh sugar and cream; do not take Arvold's Pride. This is them. if well grown; bright red; good flavor, if well grow; bright red; good havor; quite Kenticisy-Requices light sail to produce well; one of the best late make it sandy loam ; stands shipping splendidly. Sharpless.- Very large; good flavor ; doe not ripen well at the tip; not productive unless grown in hills, withall runnerskeptoff and given good cultivation on rich soil; it is not profitable as a market berry.
Col. Chenex.-A few years ago this was very largely planted for market, but has been superseded by
reliable. reliable
New
well; it is linion.-In some localities does well ; it is large ; perfect in form ; light clea Warrev.-Strong growing plant ; fruit of best quality ; fine form; dark red fruit ; un productive.
Longrellow. - With good cultivation, gives some berries of the largest size; good flavor very late ; will please the amateur
We have discarded the following sorts as of no value: Dowe Miner’s Prolife, Big Bob, Gypsy Triple Crown, and many others.

## and many others We grow by

sorts that will not matted row system ; all that way we do not want. We plant in early spring in rows four feet apart, and from one to two feet apart in the row; thoroughly work up the soil as early in spring as possible; mark off in rows with corn marker; plant every plant firm enough so that by taking a quick jerk on a leaf it will break of without moving the plant, will be scarcely a failure, keep the soil cultivated clean, cut off all blossoms and first runners that put out; let the rows get about one and a-half feet in width during the season; mulch with straw soon as ground freezes, so that you can drive on to the plantation without hurting the plants ; cover very light ; put most of the straw between the rows; early in the following spring go over the plantation and part the straw over the row, so that the plants can get up who 1 b less work and we get better fruit.

Nebraska has nearly 250,000 acres of planted forest in a thriving condition.
Lawns should not be shaven too closely from Iow until winter. Twice or more the usual length should remain on the ground during

Dr. Eby, of Sebringville, Ont., read an ex haustive paper on the above subject before meeting of the Fruit Growers' Association recently held in Berlin. He has made a deep and systematic study of the subject in all it phases, especially its relation to our climate and his views should receive the careful attenthe following, which we extract from his paper is the perfection of his scheme, which may be simplified or modified to suit individual circum stances. He proposes that a belt of young stances. He proposes, two rods wide, be planted on the north and west sides of every ten-acre field, consti tuting wind breaks, and affording shade and shelter for stock, as well as producing valuable timber in the future. This would, however be a too gigantic undertaking for our farmers at present, and the question for them to dis cuss now is the plancing of say a single row on velorts of the plan for consideration in future years. The space occupied by such belt would, he says, onl occupy ten per cent of the land, or excluding the space usually oc cupied by fences, seven and a half per cent Having detailed the opinions of several eminent authorities on the subject, he then proceeds as follows:-
The middle row should if possible be ever greens. For this purpose our native whit pine (Pinus strobus) may be selected. Th Norway spruce (Abies exceesa) may be usea, and th could be more easily obtained, or if for othe green will do, but the above are to be preferred as the most rapid growers and the most valu able when grown. The trees should be planted four feet apart in rows four feet from cach other The second rows, those on each side of the mid dle row, should be planted with some quick growing, soft wood. For that purpose sof maple or poplar may be selected, but elm or white ash would be more profitable. The Euro pean larch (Larix Europa) is very often used In case the ash is selected, the trees should be planted two feet apart in the rows. When the planted two feet apart in the rows. When th through to make barrel hoops, every second tree should be removed so as to leave theremaining trees four feet apart. In doing this, the trees standing opposite those of the middle row should be cut away, while those standing be tween should be left so as to preserve the diag onal plan.
The third rows on each side should be planted with some valuable wood, as maple, oak, ash,
walnut, butternut, \&c. These rows properly walnut, butternut, \&c. These rows properly
thinned out, can be left standing until the thinned out, can be left standing until the rows ou each side should be planted with some quick growing trees. The larch or our native tamarac would do very well for this purpose, Any of the trees mentioned for the second rows will also do for the fourth rows. The object will be to get some tree or trees that will grow up to be valuable before they materially crow on the neighboring rows. The last row on urally have a tendency to grow upwards. The larch or elm will answer this purpose very well and should beselected for the southern and east.
ern sides, while some of the hardier evergreens
should be selected should be selected for the windward sides. The Scotch pine (Pinus sylvestris) is especially vell adapted for that purpose, being very hardy Other of the light and air,
above may be planted should they indicated son be preferred. The chestnut would be a valuable addition to the list for those districts in which it will grow. The catalpa and the mulberry should not be overlooked. Both are most valuable trees, but their success in our limate is a question that only future exper ence can answer. A few cherries and birch hould be found in every grove. For wet grounds select elm, black-ash, arbor vite (comnd the tamarac will also flourish on wet grounds, but care must be taken not to plant arch on grounds on which water is stagnant After the trees have grown to such a size and height that they begin to crowd each other, every second tree in the second and fourth rows, on each side,should be removed, and when they gain begin to crowd each other, every secon tree in the remaining rows should be cut out This will reduce the number of trees to on half and will leave the trees eight feet apart in he row the crowded, then the second and fourth rows on each side of the middle row must be entirely removed. This will leave the trees eight feet apart each way, and will give them ample space to grow to a fair size, but if it is desired to have very large trees, they must be given still more room. Care should alway be taken to preserve the original diagonal plan, as that will offer the most effectual check to the winds.
By stretching wires along one of the rows of rees after they have grown solarge that cattle an no either side.
The object in planting so closely, as I have advised, is to get the treesto grow upwards and not waste their strength in throwing out side branches. By planting tbem closely they will all grow upwards so as to keep in the light, some writers advise planting even more closel than I have directed. Some direct planting ree every two or as the esh, elm, hickory, ept in special cases, as while still small, would ot be found advisable. The thinnings will hardly pay for the extra labor and expense.

One of the most unsightly things on some arms is the growth of bushes in fence corners and other places. Such rubbish is hot-beds for the production of vermin. The best time to cut shrubbery is when the season's sap is ex hausted in the production of growth, so tha the'e is not sufficient When the brush is dry port of new shoos. Wrn it on the spot where it rew together with all the other rubbish which can be procured. This will check fresh growths, and put the ground in a good state for the growth of any crop that can be sown.

Feed fallen fruit to the hogs.
Don't allow fallen fruit to lie under the trees t breeds destructive insects.

## $\mathfrak{b t o c k}$.

## Points of a Good Horse

Muzzi.e.-Nostrils should be large and wide, dicating great breathing power, and hence ability to stand much exercise. This indicates Javs. Jaws.-The space between the branches and trachea. otherw bis bur red with.
Forehead.-Should be wide, indicating a rge brain, which gives courage, tractability and a good temper.
HEAD.-Should
head.-Should not be set on straight, but wards the must be able to draw it in well toaull the breast. Straight heads indicate a the bit, the Size of head should be small or medium. Eyes-Large, bright, full and mild, indicat ing freedom from disease and a good tempera. ment.
Lans.-Medium sized, not locked; but this is able to prick ears well forward.
Neck.-Full, muscular and rather short. If ong, the leverage strain on the muscles is too great. Should be gracefully arched, gradually apering towards the head, and wide at base; ead, as this is a fruitful cause of "roaring" Shoorupr-Oblique for fest horesing arge base for attachment and play of uscles; upright for heavy horses, giving more everage and an equal pressure on all parts of the collar, being nearly at right angles to the ine of draught.
Hemervs.-Long and well placed under Ely Elbow-joint.- Should not be turned in, but have plenty room between joint and body. If
turned in, it will cause turning out of toe; hence liability to speedy cut and interfering. The pposite condition (pigeon-toed) is not so obpposite con
Fore Arm.-Must have length and well clad with muscles, especia.ly in front, indicating uscular development of the whole body Knek.-Large, broad in front and projecting nides, so as to be able to bear much concusnot be calf-kneed; but this is not so objectionable in heavy horses. Opposite conformation is faulty in heavy horses, but not so much in light horses.
Metacarpal (Cannon Bone).-Should be flat, dicating strength of bone, and tendons and gaments should be well developed and marked.
Fetlock.-(iood size, square and clean. Pastern.-Oblique $\left(45^{\circ}\right.$ to $60^{\circ}$ ), and medium rains. If too upright there is liability to na trains. If too
Hoor.- Tough, oily, bright, and finetexture If dry look out for cracks. Quarters should not be low, indicating thin sole and disposition to bruises. Frog full, and elastic and large cleft well developed.
Chest.-Volume indicates capacity for lung and large organs of digestion The more room the more endurance and stamina. Fast horsen
should have deep and narrow chests, wide ones being fatal to speed.
WrTHRRS.-Medium prominence for elegance, and for saddle should extend well back.
Barrel.-Ribs well sprung, and posterio ones long, giving room to digestive organs, and producing stam
feeding properties.
line long, giving be short on top and bottom Animal should be well ribbed home travelling. of back should be slightly depressed behind withers, but rising towards loin, and well clad with muscle. Hog-back disfavors elasticity. Lorn.-Cannot be too broad or muscular on any animal. Loin sometimes appears broad on account of narrowness of croop and hind quar$\underset{\text { Cro }}{\text { ters. }}$
Croop.- Mariable in the different breeds. Goose rump objectionable in fas
QUARTRRS, - Fla Clydesdales.
QUARTRRS.-Fleshy, wide and muscular,
without deep hollow between, and without deep hollow between, and not sunken
at anus. View always from behind. Muscles on lower extremity of tibia (gaskin) should be well developed. For speed great length of femur and tibia is required, but for heavy horses the tibia may be shorter, although the femur may be the same length.
Hock.-Flat and clean. Point of hock should stand well out, and low, making cannon bone short, which gives it strength.

## The Beef-Milk Cow.

F. D. Curtis, in the New York Tribune, says:
"The attempt to combine in one cow the quali"The attempt to combine in one cow the qualities which will fit her for a cow and a beef animal at the same time, has proved futile. carcass for twelve or fifteen yupporting a big might bring, at the end of that time, when put in condition, twelve or fifteen dollars more than another body, which was calculated to proluce just as much milk without the extra cost of supporting all this time useless flesh and bone. If cows were to be slaughtered the same year in which they were born, this talk about extra weight might have some philosophy in it. The principle is wrong. Butter is not fat, neither is fat butter, although a great many people are
trying to make out that it is. My ideal of a cow is not a small oleomargaring ideal of a an animal endowed with the apparatus for making milk and real butter, and no useless muscle, tissue, or other physical organs for mak. ing fat or beef. Ordinarily cows do not get food enough to keep up this double action, and when organs are not well supplied with nutriment, there is always a lack of vital force. A beefy cow is always a poor cow, and a good cow is ever beefy. Finely-spun theories may be never be woven into practical sucess they wil horse cannot be a rumner, and one fleet of foa is not made for draught."
A brilliant record of bovine maternity, says the Orange Co. Farmer, is reported from Marlborough, N. J., where a half-breed Durham cow, just iive years old, has given birth to
eleven calves. At the fiast birth, bcfore eleven calves. At the fiast birth, bcfore she
was two years old, she had three cal -es, at the second, three, and at the fourth, two. All but one were born alive. This leads the record.

## Weterinary.

## Veterinary Notes for Farmers

## be. w. h., montreal.

## colic.

Perhaps one of the commonest disease affecting working horses at this season is colic, also known as the gripes, the fret. It is easily recognized, and if taken in time is very amen-
able to treatment. There are two kinds of colic, but sometimes both are seen in the same case. In what is known as spasmodic colic the abdomen is not unnaturally swollen, but the The seat of the pain is in the on at intervals either in the small or the large. The $f$, consists in a spasmodic contraction of the mus cular coats of the intestines. The form known as flatulent colic is recognised by the distension of the abdomen ; the pain is not so acute as in the spasmodic form, but more constant. The distension is caused by the presence of large quantities of gas in the intestines.
The symptoms of spasmodic colic are first uneasiness of the patient-sudden pain, stamp ing of his feet, looking at his sides ; then he In flatulent colic the abdomen is down again. tended and the pain more conen is much dis rolls and lies down with more care tharis spasmodic form.
The causes of spasmodic colic are various. Drinking large quantities of cold water when in a heated or exhausted condition is a frequent cause; sudden changes of diet, as being brought into a stable off pasture and kept on dry food; also giving large quantities of water immedi-
ately after feeding on oats. The causes of flatulent colic are generally found to be due to food which undergoes fermentation, whereby a large amount of gas is generated; boiled food bad digestion, are very ,
treatment of spasmodic colic
In this affection, as in all others, prevention is much better than cure, and a proper atten-
ticn to feeding and watering will ticn to feeding and watering will do much to
prevent it. With regard to dies, the great point is to administer an remewhich will relieve the pain and relax the agent also a stimulant to cause healthy muscular ac tion of the intestines. For these purposes tincture of opium (commonly known as laudanum), combined with sweet spirits of nitre, has proved to be the best in use, and it is good to keep a supply on hand in case of necessity. On the first symptoms showing themselves the laudanum, 2 ozs.; to be administered: Take tincture of ginger, 1 oz.; water, 1 nint, 1 oz, is for one dose. Also give an inj pint. This water, abont three-fourths of a mailful warm little soap dissolved in it. If in on's tim there is no improvement, give the following drench: Take laudanum, 1 oz ; spirits of turpentine, 1 oz.; raw linseed oil, 1 pint. Apply cloths soaked in hot water to the belly, and kept constantly hot by renewing; or hot poulHices may be applied in the same way. Ordingreat danger to be yield to this treatment; the run on to inflammation of the bowels, which in
the majority of cases proves fatal and requires different treatment.
The treatment of flatulent colic must be wirected to dispel the gas in the intestines. For his purpose spirits of turpentine administered in linseed oil is the best remedy. Give the following drench : Take spirits of turpentine, 2 ozs.; raw linseed oil, $1 \frac{1}{2}$ pints. Care must be pentine by itself would injure, as the turmouth. This drench is to te mans hour's time, and if there is much ounce of laudanum may be administered in addition to the above. The danger to be apprehended in flatulent colic is either suffoca. tion or rupture of the intestine. The after reatment of all cases of colic consists in atten. ion being paid to the food, which should be of very digestible nature; no hay nor oats should e given that day. Tonics to improve the digestion should also be given, such as a teaeaspoonfuls of powdered gention, and food morning and evening od morning and evening.
New oats are not good feed for horses. They relax the bowels, and often if the change from old to new is sudden, the value of the oat ration is almost entirely lost. As they shrink a good deal in drying, the old oats, though nominally dearer, are usually cheaper, as well

The Texas Wool Grower says sheep are not the only class of stock that has gone down in horses, which have recently depreciated 25 per cent. Stock cattle, as they run, which were worth from $\$ 18$ to $\$ 20$ last April, or at least were held up to those figures, are now being offered at $\$ 14$ to $\$ 14.50$. The consequence is great complaint among those who hold this lass of stock.
The Geary Bros., of Bli Bro Farm, London Canada, recently sold to E. S. Butler, of Ridge way, Ohio, their celebrated Shropshire ram Acme, imported by them in 1883, from the flock of Mr. Edward Instone, Shropshire, Eng Acme is a celebrated prize winner, weighs 370 lbs , and was sold for the handsome sum of $\$ 450$ This, we believe, is the highest price ever paid for a Shropshire ram in America.
The American Cultivator says:-There is a growing disposition among fruit growers to believe that if pine trees are mixed through an orchard it will have a beneficial influence in dive inseway the moth of many of the destruc trees. It is which prey upon apples and apple issuing from the thesed to be the strong effluvia contend that e turpentine of the pine. Othen throws off in the grove constantly in cold weather a large amount of warmth or caloric which has a favorable influence on surrounding trees during our long and severe winters. In
fact it is contended by some scientific authorities that all live trees he scientinc authore, besides the protection which they impart as wind-breaks. It is claimed by medical writers that the influence of the turpentine in pine groves is highly beneficial to the health of the human race, as well as to animals which dwell in well-ventilated pine groves.

## Gritar's Diary.

$\overline{\text { A German farmer in Michigan tested one o }}$ the highly boasted threshers of that State by putting the chaff through a fan-mill, and obtained twenty five per cert, of the crop
threshed. The "more manure" cry should now threshed. The "more manure" cry should now
be accepted with greater suspicion than ever. be accepted with greater suspicion than ever Many farmers are perwing as agent for the destruction of weeds. Weeds require the same dourrishment as other crops, and if the soil is light and the season wet, the true secret of extermination of these merciless crop-robbers is that the soil has been deprived of the fertil. ity which is required to make them flourish, and colt the sust suc to
At Cornell University there is a herd of grade Holsteins, half to three-quarter bred, amongst which there is one thoroughbred.
party of experts who visited the herd could not pick it out from the rest of the herd. This speaks well for the impressive power of this
noble breed. Prof noble breed. Prof $j_{j}$ Roberts, who is both a
scientific and practical farmer, conducts the scientific and practical farmer, conducts the
farm on the principle of farming scientifically farm on the prinipiple of farming scientifcally
for profit, the result being that the profits of for proft, the result being that the profits of
125 acres over all expenses amount to $\$ 2,000$ a yearr. It is interesting to know that the pro. fessor, in producing milk for sale, has se. lected the Holsteins to grade up his herd. There is something in book-farming after all.

The German Millers' Association offered a prize for the best essay on "How to determine the admixture of organic or inorganic sub. stances in rye and wheat flour." The prize was won by Dr. Wittmack, professer of the Agricultural College at Berlin. This is pos. sibly one of the most important prizes ever offered, as it has been the means of bringing
conspicuously before the conspicuously before the public the different
modes of adulterating wheat offered a series of practical tests by which the adulterations may be detected. The mixing of cheap with costly flours has become a most sin. ful evil, and it is hoped that the various tests brought out in the essay will be the means of driving defrauders into more legitimate pursuits.
Beware of gamblers and swindlers at the jumbo exhibitions. This growing disgrace is
one of the chief features of the and it is thought we will be left behind the age unless we also patronize all sorts of humbug monstrosities. The show is getting to be a fine nest for sharpers, quacks and buftions, who compete with each other in diverting the attention of those who go to learn something fresh about their business. If the growing evil is finally to overcome the waning good, the sooner the farmers begin to discusss the estab. lishment of purely agricultural exhilitions, the
better for themsel ves and for poosterity, The farmer who on leaving the porhibitority. The does not feel that he has been benefited both morally and intellectually, should stay at home in the future, and certainly his wife and family would be better amused and instructed by going elsewhere

It is not expected that any more falling will
take place in live stock, as it now stand on take place in live stock, as it now stands on
four legg, viz, butter, cheese, beef and oleo. four legs, viz,, butter, cheese, beef and oleomargarine
$\qquad$ $\overline{\text { of } / d i}$ The cruel practice of dishorning cattle still S0,000 head are dishorned annually. In a late suit instituted by the Society for the Prevention of Cruelty to Animals against a dishorner, udgment was rendered against defendant.
Less than three per cent. of the dairy productions of the United States consist of butter nade in factories ; only twenty per cent. of the
otal cheese manufactured is the factory. made ticle. This is after twenty years of co perative dairying, and yet attempts are being made to convince the farmers that private dairying must go.
Now is the best time to take the question relating to the destruction of weeds into consideration. The botany of every wed should be studied, and the duration of its season of growth. A distinction should be drawn be
tween those weeds which ripen their seeds be Fore the emoval of the crop, and those which tivenor, as agenans for thei their destruction, are often better than the plow.
The farmer's boy is often led into mischie for want of something to occupy his mind, either from inward depravity or from associa
tion with neighbors' boys of still more evil pro pensities. Even during his school days he has always some vacant moments, mornings and evenings; or rather he should not spend all his ut-of.school hours either in idleness or in farm drudgery. The best way to awaken his latent mbition is to put the outline of some experi in the garden, a cow or a pig with which to carry on experimental feeding, or even an in carry on experimental feeding, or even an in
sect or a plant with which he may practice entomology or botany. Watch the bent of his
mind, and you will be sure to find evidence of gind, and you will be
greatness somewhere.
sure to find evidence of
The Wyoming delegation appointed for the purpose of obtaining a hearing before the Privy
Council in relation to the shipment of cattle through Canada into the interior of England, have submitted their case. It will be remem bered that there is a restriction in England compelling American cattle to be slaughtered on landing, so that if the case be favorably heard the Privy Council will be discriminating in favor of Wyoming cattle. The Council wisely decided that the Dominion Government would first have to be consulted with regard topermit ting the cattle topass through Canad ian territory.
Although the C Canadian route is much shorter Atthough the Canalian ria Chicago to the At. and cheaper hand the English could procure lantic ports, and the Engish could procire
healthier meat through the former route, yet it is not likely that the Privy Council will be desirous of changing the general policy with regard to restrictions on American cattle, whether or not the object is to afford a certain amount of protection to British stockmen.
Should the Wyymingites still entertain hones Should the
of suceess, they may expect to have the poliey of sucess, they man expect to have the ponicy
of delay + oontend with
Apart trom these considerations, it is not to be expected that
western cattle are to be considered sufficiently Western cattie are to be considered sufticiently
free from disease to warrant the acceptance of free from disease tow
the proposed scheme.
© orrespondence.

 guaranteo of good taith and to tor pubulication, but as It an annewer io any reason, that courre seems desirable. be enonoseed. Uniless of t geneneal in therestat on, stamp must
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open, in which asese the:posacaece will only bo
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Soluntary orrespondenco oontanding useatul and oesoonDie entormation solicitited, and if need, will be Hiberally
paid tor. No notice taken of anoonmoun oorremond enoe. We do not return rejectected oonmmunimeationes. We do not hold ourselese responsible for the vieuso of
corresemndents


Thisd ropping of the pears may arise from their being
intested w with the codilng moth, which attacke the peins readily as the apple. Pears also somentines dorop trom protracted drought and eomestimes from overe-beboritg. 1



 $\qquad$
 and wimz




(TTake thre or four heary planke about 12 toet lons plase them side by side, and lasten them togethor by
three heary cross pieceas oni three heary cross pieces, one at each end and one in the
contre irron holts or wooden pinas through the p planku and croses pioees, will make the etructure seoure.) Hitch


 tance. 1





11, For red dasperitie, ,and loani; for black rappberries
nd
 per aere tor either rasplperries or orlackberries. One man could lant an acre in two days atter fround is ready.
h hoot crovs can tee raised between rown Art ty it doos not tpay to do os, as the plants will not yo near so well 4 , There is no better time to plant than fall, as soon as trost kills the leaves on the plantes. 5 , Black
raspherries will yield trom 100 to 150 wushels $t$ the


 in rows six leet apart, and three and one hall toet apar


## 











[1. There has been aglut of stock in the English market owing partly to the sinultaneous arrivals of large cargoes sion is fully equal to the figures in your case. We are sion is fully equal to the finures in your case. is any the
not aware of any combination, and if there depressed prices cannot be traced to it. 2. Mammoth Cluster or Greg is the Caroline-in this vicinity.)
 to feed to dififerent kinds of stock to commenco withour
some one's opinion and advice. Will you in your next
and

[There is no fixed rule as to quantity. Oil cake being a laxative, you should watch the state of the bowels o pared with other food should be changed occasionally Everything depends upon the kind of other food given Alitle experience will guide you. As a rule, however you may take the following ration as a basis for moder
ately fed cattle or sheep; One part hay (timothy and clover mixed), \& parts roots, 1 part meal (barley or oats, mixed or separate), and one-fourth part oil cake. In or in part, for oil cake, and if peas are substituted for oats or barley, aless quantity must be given. If no grain
is ed more oil cake may be given, especially if the hay is ed more oil cake may be given, especially if the hay
is of poor quality. Stock will do very well on good straw and oil cake, that is, a too poor and a too rich food mixed
will often do as well as a mixture of several moderately rich foods. If you bear in mind that clover, bran, peas and roots the medium, and corn and straw the porr foods, common sense will teach you how to mix them. For attening cattle more rich foods should be added to the standard ration
not measure.।

Sir, -1. What is the cause of the feathers coming off
ny hens' necks from the head to down near the breast,




We know of no other cause that has ever produced such symptoms. When they once get into the habit they ver:
ften continue the practice after the animal food given, so that the only sure remedy is to keep them
geparate. Some poultrymen destroy such hens when separate. Some poultrynnen destroy such hens when
they are not very valuable. 2. It depends upon how
deep you plow You needn't be afraid of putting on too much, if you plow decp and mix the ashes thoroughly with the soil. Apply 60 to 120 bushels per acre, accord ing to the depth you plow; but a less yuantity applied
as a top dressing or merely harrowed in would produce a a top dressing or merely harrowed
good effect on some crops. 3. No. 1
Sir, Is there a reliable company that insures horses?
want to buy a good stallion, but am opposed to roun any
h.

hisk | Soutr Cariga. |
| :--- |
| sine insurance |

ompanies will insure stock against fire
the siables they ocuuy; but other
policy on an animal'y life.,

Sip.-Would it do to sow buckwheat amonget straw
berries to act asa mulch?
T. berries to act
PErtolia. [A green crop may be sown between the rows, but
buck wheat wilts to almost nothing soon after the froot buck wheat wilts to almost nothing soon after the frost
makes its appearance. Oats would be the best green crop for the purpose, but there is nothing better than clean wheat
in the fall.]

SIR-What is the name of the weed send herewith,
OLD Subscribre.
and how is it deestroyed?
[The common name of the weed is sow thistle, the [The common name of the weed is sow thistie, the
botanical name being Sonchus asper. Read our article on "Fall Plowin"" in
 SipR-What ist
WATFORD, ont. [You will find a cut of the onion fly, with description and remedy, in our issue of last May.

Sir,- -1 have a sucking mare colt (valuable stock) with
what appears arupture around navel.
Please intorm in me what appears a rupture around navel. Pleaese inform me
what ot do with it. Some eax it will get well of of itsolf.
S. C. (Don't treat the colt till it is a year old ; in nine cases If of ten they get better at this age without reatien
If the rupture does not pass away when the patient is a year old, you will have to get the clamps put on, which must be done by a skillful veterinary.

SiR, -What is the best plan to exterminate wild oats
Ouk.
W.
O. [Wild oats, and all other seeds that ripen before harvest, are best destroyed by cultivating or lightly gang. plowing the land as soon as the crop is removed. This will give the seeas a betin the fall. If the season is tavorable for a vigorous growth, you will then have a crop of green manuring, which will make the oats pay
(or the trouble they have given you. For further details lor the trouble they have given you." For further deta
read our article on "Fall Plowing," in this ssue.]

SiR,-Can you please inform me through the columns
of your valuable paper of any reliable books on small
. of your valuabe
fruit rowing and
W. 1.Noson, N. s .
[Refer to our book list in advertising columns of back - -






|Your calf is troubled with rheumatism, which fre-
quently affects high-bred and highly fed young stock, especially when they gre subject to exposurg. Give
about three fourths of a pint of raw linsed oil twice week as a drench. Give also sonae diuretic medicinine,
say saltpetre, two or three times a week in dram doses. Rub a sharp liniment on the hips and back. Continue
this treatment until you find manitest sypust provement.।

We are continually receiving letters asking for information which has appeared over and over agair in the our space is too limited to answer all our correspondents. Wosicteavor to kive information as much in season as demand inmedtiate attention, are lef season, or do not crowded for space. Other letters remain unanswered readers should klance through the ADvocats if they do not find the answers to their questions in the corres-
pondence columns. We are always ready to furnish Pindence iformation to our correspondents, if the questions
lisked
shed are senuible asked are sensible and of general interest.
(che 2fpiary

## Increasing Colonies by Division

 J. M. Hicks, in the American Bee Journal, pays: "It has been many years since I first practised increasing my colonies of bees by theabove method of swarming, and thus saved great deal of trouble as well as time in waiting for them to swarm at will; which I think is money to the bee-keeper who desires to prosper in the business of keeping bees for profit. I am well aware that many object to the management of bees on any other than the old style, and say, "let the bees swarm naturally if you would succeed, as did our fathers;" but I desire different success from that of 50 years ago, when we so well recollect how father, ma frequently came over to show how to hive bees when they should swarm; and of all the whang-to bang-bangs and jingling of cow-bells, played so as to get the bees to settle, frequently resulting in a total failure. Often the bees would return to the hive from which they came out, and sometimes coing off to the woods, for there was plenty of woods here in the Hoosier State about that time, and were thus lost or failed to cast a swarm at all.
It is a well-known fact, too well established to be misunderstood by any one except an old-
time bee-keeper, that two fifths of the colonies which are allowed to swarm in the old way, are lost by going to the woods. While it is a well established fact to the more modern and scientific bee-keeper that a swarm produced by dividing a colony, at the right time, there will be no trouble about losing a swarm, or having them come out and leave the hive.
I think that it is much easier to swing the brood frames out and select such of the brood as is fit for putting into a new hive of the same shape and size (which they should all be); thus making up your new colics ine to to minutes. brood would have swarmed had they been left to luck and chance.
But says one old fogy, "How are you going to do all this and not let the bees swarm in the old way?" Truly, this old question is a poser to us ; but we must make ready one of our im. proved hives, just the same as all the bees are in, and we set it by the side of the hive of bees that we think is ready for dividing. We now swing the doors open and take out a frame from the midale of the new hive, frames apart carefully, and we find the frames on which the queen is situated. Perhaps she is laying eggs at the rate of a hundred per hour ; but we now lift the frame of brood, queen, and adhering bees on the same, and hang it in the new hive in place of the frame just taken out, and then hang the new frame in the old hive, and close up both hives carefully. Put the new hive with the frame of brood, bees and queen, in the same place where tho old hive stood, and move the old hive some dis tance off to a new location. Now whave done, the old colony which hould have location, thus strengthening them, and goos to
work with a will, already having one sheet of brood, eggs, an
house-keeping.

## Division.

a Bee Journal, 8 since I ifrt
of bees by the of bees by the
thus saved a ime in waiting ich I think is sires to prosper or profit. object to the than the old farm naturally fathers ;" but at of 50 years thow father,
swell as grandswell as grandr how to hive
and of all the and of all the g of cow-bells,
tle, frequently ften the bees aich they came
the woods, for in the Hoosier thus lost or ell established except an old-
f the colonies ft the colonies
the old way, While it is a
Whe e modern and me, there will rm, or havir to swing the of the brood ve of the same
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they been left re you going to
swarm in the ion is a poser one of our imthe bees are ne hive of bees ng. We now $t \mathrm{a}$ frame from
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The Sourseholv.
Taking Medicines.
Mischief is often done by the indiscriminate
use of medicines. The idea is well expressed use of medicines. The idea is well exp
by the inscription on an old tomb-stone
"I was well ; I wished to be better ;
I took physic, and here 1 am!
The intelligent physician does not profess to cure disease through the direct agency of the remedies he prescribes; these are given to re-
move obstructions that interfere with the recaperative efforts of nature. If there are no obstructions to remove, the effect of drugs is to interfere with the natural and healthful movements of the machinery of life. Health is maintained by "good living,"-a term that comprehends a great deal. I consists in hav ing good food, properly cooked, at every meal and moderation in all things. Such ars might require no medicine during a long life. I must admit, however, that such an instan would be exceptional, even to one making the effort to live in that way. We can not always procure well-cooked foods, nor can we always predict sudden changes of the weather in time to protect ourselves a ajainst them. But we can aid nature in throwing off disease, by abstinence and such other prudential means as would ocur to any thoughtful person, instead of eating heartily and tring in drugs to overcome
Who ever
Who ever saw an habitual medicine-taker medicines debilitate, and that drawback must be duly considered before taking them. Think of the quantities of pills that are used. Most of these are taken to relieve constipation. Unfortunately, the relief is only temporary, and the doses must be repeated often, thus weakening the stomach and incapacitating it for its natural work. If medicine is used for the relief of constipation it is better to employ is to cure the trouble by means of a proper diet and regular and active exercise or work in the open air. Thousands of drunkards, with their legacies of sorrow and crime and broken hearts, are made through dram drinking, comnenced at first for the relief of dyspepsia or colic, and continued through excuses and sub. terfuges that a depraved appetite strives to make plausible.
The little household remedies have their uses and they have also their abuses. There are brandy, paregoric, laudanum, ginger, and pills and powders, may be of great service. The important point is to know when to use them that would be perhaps once where they are ordinarily employed ten times. The best of all remedies-and every person should have a little constantly on hand-is common sense. If one xperiences inconvenience in eating, nature left to herself, than by efforts to aid her with
liquors and tinctures that benumb the stomach liquors and tinctures that benumb the stomach
and retard healthy action. Rest, warmth and and retard healthy action. Rest, warmth and
abstinence are the proper remedies for all ordinary ailments. Wholesome and nutritious Ood, the comforts of a good home, vigorous and
regular exercise, seasonable clothing fresh air constantly, and eight hours of sound sleep out of every twenty-four, and you may "throw
physic to the dogs."










 had tormed partof $\frac{1}{\text { is d dream a reaity．He }}$



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## 家家荡




## Bouquet of Wheat Ears


$\begin{array}{ll}\text { Death never parts } & \text { Joy day and night } \\ \text { Such loving bearts，} \\ \text { Be our delight }\end{array}$
Love and respect
Ido expect．
 Let him never take Ast Astiss shall lovere prove．
 $\underset{\text { In lowing thee }}{\text { Incer myelt }}$ This rintul dothe prove．
 $\underset{\text { In God and thee }}{\text { Shall my joy be．}} \begin{aligned} & \text { Of rapturous joy } \\ & \text { I am the toy．}\end{aligned}$ Love thy chate wite e th the Ippove
Beyond thy itif．
 Great foy in thee
Continually．
In love bidide
Till death divide． $\underset{\text { My fond dolight }}{\text { By day and hight．}} \quad \begin{aligned} & \text { In unity } \\ & \text { Letes live and dio．}\end{aligned}$ Pray to olovej Happy in thee
Loveto pray．

Hatt Cod nade me． | In thee，my chice， |
| :---: |
| Ido rejiciece． |

 $\begin{array}{ll}\text { Dear wifte，thy rod } & \begin{array}{l}\text { God did dearee } \\ \text { Dooth lead to cod．}\end{array} \\ \text { Our runty．}\end{array}$ $\underset{\substack{\text { God alone } \\ \text { Made us two one．}}}{\substack{\text { Ikise the rod } \\ \text { From the and } \\ \text { ood．}}}$ Eternally
My ly love shall be．
be．
$\substack{\text { In love and dioy } \\ \text { Be our employ．}}$
 Yorship is due
To $o$ god and you．
God above
Continue our love．





$\qquad$
An effective and easily made decoration to
break a space upon a barren wall，is an eighteen inch square board，quite thin and covered smootily with plush．Hang it diamond－wise by means of eyes screwed to the back；nail in the centre of this a carved or gilded bracket， large enough to hold a vase or figure，or else
hang a pretty porcelain or some old fashioned plague in the centre．

Love and joy
Can neverclos． The pledger prove
Of mutuall love．
Iove the rod
nod
nd the end God
not the and God

Jemima Rann－＂Good bye，＇Arry ！Yer mustn＇t come no nearer the＇ouse，case missa， Sh＇see yer．＂Arry－＂I see，my dariin＇ jellossy．＂－［Fun

## edtinuit extay's gneparturnt.

My Diar Nieges.-As many of you are anxious to know how my vacation was spent, trip I took in company with some friends, to a thip I took old city of Boston, the Capital of the State of Massachusetts, or the "Hub of the Universe," as it has been called. Being desirous also of visiting friends in Toronto and near Montreal, we took the longest route, going by rail to Toronto, which ispprobably so well known, at least by hearsay, to most of my readers, that I need not encroach upon our valuable space by giving any description. Suffice it to say that after spending a few delightful days there, we continued our'journey by rail as far as Kingston, where we took the steamer for a run down the way through the mazes of the Thousand Islands, which are situated at the head of the St. Law rence and extending a distance of thirty miles down the river. Nowhere does nature presont sụch alluring charms as in this region; there are hundreds of places, rugged and solitary, where a boat can glide, while its occupant lies peacefully indolent, reveling in the solitude. These St. Lawrence Islands number about two thousand, usually vary ing in size from a few square yards of surface to several acres. Wolf Island, about fifteen miles in length, is the largest, while some seem mere dots rising out of the water; their appeareing studded with trees of rich foliane gener blly of moderate or stunted growth Many of the islands, both large and small, are rendered more attractive by the pretty cottages and imposing villas. Beyond the islands the river rolls steadily on until it reaches the rapids, seven in number, the principal of which are the Long Sault, nine miles in length; then he Cedar, and although the shortest, yet far the most dangerous, are the Lachine Rapids. The current rushes impetuously over and be. wheen the rocks which jut from its bottom, while the pilot, generally an Indian, with kill guides the boat safely through the reacherous channel. The passage causes a peculiar sensation to the tourist, the water, ppearance, At one point in the Lachine it is particularly exciting, one almost fancying that the boat must strike an immense rock which usually stands about three or four feet above the water, but gradually we found ourselves swerving around it as easily and gracefully as possible. Steamers have run these rapids since 1840, and never yet has there been a fatal accident. After passing the rapids we drew near to the famous Victoria Bridge, which spans the St. Lawrence, a distance of nearly two miles. It is the longest bridge in the world; the railway track runs through an iron tube twentyunder this bridge we approached the City of Montreal, which is beautifully situated on an island thirty-two miles long and ten miles at its widest point. On one side of the city is Mount Royal, or Mount Real, seven hundred and fifty feet in height, from which the city takes its name. Having only a short time to, remain, we visited a few points of interest,
one of the largest churches on the continent. It is a massive structure built of stone, capable of the towers is fine ousand persons; in one of which weighs twenty nine the the larges hundred pounds.
Montreal has been styled the "City of Churches," and the number of nunneries, hospitals, scientific institutions, libraries, schools and universities is remarkable. The public buildings are constructed of solid stone, and all are edifices of which to be proud. We must not dwell longer here, but move on to our next stopping place, which was near Sherbrooke, about a hundred and thirty miles from Moncountry air we thoroughy enjoyed the pure rambling into the riding home from the latter on 1 , sotime stopping by the wayside to gather berries for our evening repast. All this drew to a close only too soon, and we were compelled to continue our journey southward. The scenery through Vermont and New Hampshire was charming; in the latter State we had a glimpse of the White Mountains in the distance. After a ride of about seven hours we reached Port land, the eastern terminus of the Grand Trunk Railway. Here we left the cars and continued our journey by steamer to Boston, a distance of one hundred miles; the change was exceed there was nothing to be seen; how made we nig amply repaid, for upon rising the net moning we witnessed the approach to the city. The soft gray mist of early morn was just giving way to the warm, red light of the rising sun, which was reflected on the water, rendering the scene indescribably beautiful.
" Boston sits like a queen at the head of her harbor on the Massachusetts coast, and wears her crown of past and present glory with an easy and self-satissied grace. The city is built upon a peninsular about four miles in circum ference; it was first called Shawmutt, the Indian word, signifying "peninsular; then Tremont, Which Hill, but in 1630 the name was agin changed to that of Boston, because many of the colonists were from old Boston, in Lincolnshire England. The face of the country has bee entirely changed and many of the old landmarks are now obliterated. "The three peaks of Beacon Hill which once lifted themselves to the height of a hundred and thirty feet above the sea, are now cut down to insignificant knolls." At the present time thousands of acres of made land, which once formed the bed of the harbor, are densely populated. The Common, which is the pride of Bostonians, and very justly so, was originally a fifty acre lot for which it was sold to the people of Boston in 1634 for the sum of thirty pounds. In 1830 the city authorities forbade the use of the common for that purpose and had it inclosed by a two rail fence, which has long since given way to a handsome iron one. For many years the prin cipal object of interest upon the common was the Great Tree, or Old Elm, which was probably over one hundred years old in 1722, being full-grown at that time, in 1844 its height was said to be seventy-two and a half cet, and
two and a half feet. The storms of many years marred its beauty, but tender nursing assisted greatly in its preservation During the Revolution the British Army were encamped around this grand old tree.
"In 1812 the patriot army occupied the same place in protecting the town against the inplace in protecting the town against the in-
vasion of a foreign foe," and here in 1740, Rev. Geo. Whitfield preached his farewell sermon to an audience of thirty thousand people. On the highest point of the common stands the soldiers' monument, the extreme height of whioh is ninety feet. At each corner is a statue representing Peace, History, the Army, and the Navy. Surmounting the shaft is a coloseal statue of "America" resting on a hemisphere, guarded by four figures of the American eagle,
with out-spread wings. America holds in her with out-spread wings. America holds in her
left hand the national standard, and in her right she supports a sheathed sword and wreaths for the victors.
Among the places of interest in Boston is the old State House, built in 1748, King's Chapel, completed in 1754, its churchyard being Bos. ton's first burial ground; some of the tombstones date back as far as 1658. The new State House whose "gilded dome is a conspicuous object far and near, and glitters in the sunlight like veritable gold."
The new post office, which is considered one of the finest public buildings in New England, occupies an entire square. Groups of statuary
ornament the central projections of the building; the interior arrangement cannot be sur. passed for beauty or convenienoe. The process of building occupied many years, and cost something like three millions of dollars. At the time of the great fire of 1872, the massive granite walls were cracked and split, but they effectually stopped the work of the fire fiend. The old South Church which stands in the heart of the city, is one of the most famous buildings in Boston; during the Revolution it was frequently used for public meeting, and here the celebrated "ea Parly held thin meesulted in consigning the British tea, together with the hated tax, to the bottom of Boston Harbor. In 1775 it was used by the British as a place of cavalry drill, and a grog shop was establishéd in one of its galleries. It is now only used for business purposea.
It is impossible to properly describe Boston within so short achapter, therefore hundreds of interesting places in this singular and crooked city must be left unnoliced. The suburbs abso are very beautiful; one can drive through a not all one, so evenly are they settled and not all one, so evenly aie
beautifully kept. We visited Cambridge and Harvard University ; the residence of the late poet, Longfellow ; Mount Auburn Cemetery, the most picturesque I have ever seen; thence to Belmont to see the gardens, green houses and Deer Park, belonging to a private gontleman, who very generously opens his ground to visitors during the week. I can only say it was the most beautiful sight of the kind I have ever beheld. It is impossible for me to close without giving you a peep at another ofny pleasures, namely, my
where so many Bostonians have built summer cottages, which remind one more of pretty little bird cages than anything else ; they are of the

Queen Anne style and painted gaily, yet tastefully, in olives, gold, browns, terracotta, and bright red. A dive past them, along the water's edge, while was most enjoyable.
We were very loath to leave this enchanting few short weeks we had started upon our return trip, feeling that what we had seen was almost like a dream.
Now, my dear girls, I will give the result of the competition for the essay on Friendship ; prize of a silver butter cooler has been awarded to Miss Maggie Naismith, of Holstein, Ont. We now offer a prize of a handsome silver napkin ring with the winner's initials engraved, for the best essay on "True Politeness." We were particularly prased at the quas quality of essays sent in this month, and competition. All communications must be in by petition. All communications must be in by
the 25th. Minvie May.

## PRIZE ESSAY.

## Friendship.

by miss maggie naismith, holstein, ont. What is this friendship of which tards have sung and poe's raved almost from "time imnemorial ?" Is it-
But a name, a charm that lulls to sleep, A shade that follows wealth and fame,
And leaves the wretch to weep
Far be the thought! Friendship, tried and teadfast, may be rare, it is true, yet even in this world of empty form and base deception, we may find that which merits the tive, Prom earliest infancy each has had a bosom From earliest infancy each has had a bosom confided every joy-every hope. While as time rolls on and with the changing years change early ties, still there will be one who, nearer than all others, may clain that chosen place.
Are we wrong? Are there those who tread "life's thorny way" friendless and alone? None to love, none to caress." None to care whether fortune smiles on them and life seems a glad song of siles "the burden lid en them greater then thes can bear," Cheerless thought! Could joy uhshared be joy? Could there be sorrow and none to sympathize? None to speak a kindly word or lend a pitying glance? Oh ! depth of earthly woe Bowed thus in sorrow, do they not know that there is one ever ready to help? One "Friend that sticketh closer than a brother." No grief is too small for His notice-no care too trifling. Precious "refuge in time of trouble!" Why will not all seek comfort
there?
But even humang and what constitutes a true friend? Is there one who bravely, yet gently, tells us our faults ; who tenderly dis. entangles our feet from the meshes of evil and points us to the straight and narrow way; who chides without harshness; who loves with out servility? Then such would we gladly call our friend. Only one who is faithful and true could venture to administer a reproon,
that it would inflict pain, for whose inward
spirit would not feel chafed to see their faults exposed to the glare of even friendly criticism "the are kisses of an enemy."
"True bliss, if man may reach it, is com. posed of hearts in union mutually disclosed. not lighten? How often, when downcast and sorrowful, have we felt the soothing influenc of friendly sympathy? Think of our sad ex perience had there been none to confide in. Wguld we not be still morosely brooding ove our ills, magnified tenfold by nursing them, whereas we can now see the silver lining peep ing through the clouds, and life once more seems bright and beautiful? One friendly word worked this metamorphosis and enabled us to see all in a new light. Who can estimate the value of a true friend? Little do we realize how much our companions make or mar our live his childhood --his father's restraining influence and his mother's tender care-goes to figh life's battles, totally ignorant of the snares and pitfalls which await him. "Distance lends enchantment," the world seems full of beauty and sunshine; he does not dream of danger when, perchance, the serpent lurking in his path will steal upon him unawares. He does not recognise a foe, who, skilled in deceit, comes in the guise of a friend, and ensnares the unsuspecting youth. All are not endowed with the same will power. Some have a yielding and pliable nature and may be readily influenced for good or evil. How many, looking back condition to the timely influence of a friend
Parents should study the disposition of each child, and as far as possible keep them from ware lest the tempter come in the disguise of friendship and steal from your garland it sweetest blossoms.
Ah ! sould you but have foreseen the dire consequences-your boy filling the drunkard's grave, or chained with the convict's fetter, would that subtle deceiver have found a place by mideside? No! And now when goaded late. He you spurn him from you, it is to ruined your darling while claiming to be hi friend, yes - friend-as Brutus was to Caesaras Delilah was to Samson.
Can friendship exist between two of differen tastes and habits ; must there not be thought sity fis in common-only sulficient dive cy met that ously together? "Two sols with hut a singl thought-two hearts that beat as one.
How true it is that "a whisperer separatetl every day occurrence? strange it is that we value our friends so lightly, that we woulit allow a mere scandal-monger to come between us and them. It is only when they are goneparted hy a proud, unforgiving spirit-that we feel our loss. Mayhap, we do not realize it Theney in gone from us to another world in vain wish would we recall each hasty action, in vai
late.

We did not appreciate their true value when here, and now'tis vain to sigh for A friend "whose every breat Whose heart with ours in joy may beat Whose eye with ours in pain may meet For dear to us are those who wait
Around our couch with kindred paii The long familiar friend or mate, The long gamiliar friend or mate,
Whose softness woos us to complain, Whose tear meets every tear that flows,
Whose sympathy relieves our woes."

## Answers to Inquirers.

Katie.-A very pretty way to use your numerous Christmas cards would be to cover he top of a table as follows : Begin by cutting off all the margins of the cards, then arrange the centre, and taking care that all the light and dark ones are not together, but counterbalance each other; stick them on with paste sold in bottles. Size, and then varnish. Finish with a gold rim or tack a simp around the edge with fancy nails; the effect is very pleasing.
Perplexed.-Please tell me how to make white and spotted castile soap? Ans.-Take lbs. of sal soda and 3 lbs. of quicklime, and dissolve in 4 gallons of water ; strain clear and dd $t i$ lbs. of olive oil, stir thoroughly and boil, then set to cool in a square flat vessel and cut into bars while soft. To color the soap, take a mall quantity of finely powdered copperas and sir it in the hot soap sufficient to partly mix or marble it, and then set it to cool; after a ted the T. streaks and spots.
ent", ne "pance "patent" as "pay ny notice of the man who presumes to stare so rudely at you in church, but keep your eyes way and devote your thoughts to your religious duties.
Maisie.-1. George Eliot is the nom de plume of Marianne Evans, born in England 1820 , died 1880. She was the daughter of a cergyman; her principal publications are "Thes of Clerical Life," "Adam Bede, "Romill on the Floss,"," "Silas Narner," "Daniel Deronda," etc. 2. The lines-
"To know, to esteem, to love and then to part,
Makes up life's tale to many a feeling heart," are by Coleridge.
Sweet Sixteen.-1. To paint the fan, it will be necessary to stretch it on a board and asten it down with tacks. Otherwise, the naterial will draw. 2. It is not necessary hat a brideside inded, it it ferred that they should diffee. The gloves houldmatch the costume Hats are considered in better taste than flower-dressing for the hair. 3. The tulle veil is simply finished with a hem about an inch and a half wide, and is drawn together at the top in soft plaits that are carefully pinnnd before the veil is fastened to the hair. Tiny silver pins are pretty for fastening the veil.
Bella B. - l. You are not too old to learn singing at nineteen years of age. The voice to beautiful for many years. Be careful practice the scales and exercises mainly, and do not waste time over poor songs.

ऐtnele ©્લam's Department. My Dear Nephews and Nieces, - Below My well find the letter which gained the prize, your cousin, Harry Woodworth, being the lucky boy; and I think you will agree with me in thinking him a lucky boy in another sense, for few of my children have had such a nice trip to write upon. I was very much pleased with all your letters, and wished I could give a dozen prizes. Poor Maggie Elliott has had coals of fire heapel ong that dread by nearly every cousin, for sending that dread ful drop letter puzzle. No one answered it, and ber it herself, for I had mislaid the answer so looked to her letter for $i t$, and behold she omitted it too. So in this, one is no ahead or behind another. I am requested from headquarters to be brief this time, for they want an early issue, so I am very punctual and have only the letters up to the 25th, and many of them had no names. I never heard of such stupidity.

Hall, and has two very handsome stained glass Villiam Black, presented by Mrs, C. F. Allison and Martin Black. There is a great deal more I should like to write about, but I mafraid you will think my letter too long, Sackville you may come and see

Your affectionate nephew,
Harry Albro' Woodworth.
Puzzles.
1-Two hidden proverbs.
(One word of each in each line.)
(a) Ada, Flewellyn is here.
(b) How I scream and roll. Ingersoll is in Oxford.
We have no time.
ments of music?
When gathering old rel
Do not spoil that hat
(f) That stone is partly moss, that glitters so.

1. A consonant. 2. A dish. 3. An author.

A the names of two authors.
MinNie E. Welion.
Sackville, N. B., Aug. 20th, 1884.
Dear Uncle Ton,-1 read with great pleasure your interesting account of how you spent your vacation, and only wish your description had been longer. I did not enjoy my midsu. last when I spent year as mach as I dast, wey on a visit to the capital of Nova Scotia, where I have a great many cousins, who took me sailing, boating swimming, fishing and canoeing, and sight-seeing gener ally. One of my cousins and another man beat twenty-two canoes (two men in each), and won the Mayor's prize and a couple of silver medals. The day arrived in Halifax I went to a picnic on the Dartmouth Lakes, and there met a lady who asked me if I was the Harry Woodworth who sent puzzles to the RRMER' Advocate. So you see my fame had preceded me, or the fame of the Advocate, Tm not sure
which. One night I went out with a boating party on the harbor. We went over and stayed ${ }^{2}$ while about H. M. S. Northampton, then went over by the side of H. M. S. Dido, where the sailors were having a concert, which sounded splendidly on the water. When it was over, a chap came to the side and said "(Good Night!" Then we rowed for home. We attended the annual Studley Quoit Club match, and proud enough were we boys when our cousin, John E. Albro, carried off the second prize ; and you can fancy how surprised I was on asking
"Who is that guy in white pants?" to be told "Who is that guy in white pants?" to be told
it was no other than H. R. H. Prince (ieorge of Wales. We like Sackville very well. It is a large and pretty village on the Tantramar River, and has, besides a lot of other public buildings, several churches, two foundries, one boot and shoe factory, one tannery, three public schools, four halls, one exhibition building, \&c. and is the seat of Mount Allison Wesleyan College and Academies. The new Memorial College, erected in memory of William Black, the founder of Methodism in the Maritime the rooms in the College is called Memorial
A * M

Three si ni yrvee namhu thare
Eosm tno Imeocptely brenra rapt, Ewehr deses fo vole dan rthut mgthi rogw,

$$
5 \text {-hidden fish. }
$$

Which piece of calico do you like best? as Ontario.
Tary lost her pet lamb as she was coming home After supper Charles and Mary played chess.

6 -charade.
I am composed of three syllables. My first is a adjective. My second is a liquor. My thir place in geography.

Sarah. M. Beett.
When whole I mean to wande
Behead and you will see
That any dininc-room waiter
Can't well do without me.
Behead again and see you may
What the sun sends out at bright noonday
When whole I mean worth.
Behead and you will see
Behead and you will see
A grain that does not grow her A grain is used extensively.
Per will find
Behead again and now you will find
Something that's useful in hot summer time.
A. J. TAyLok.

8-decapitation..
Whole, I am an archbishop; behead, and wean to tell ; behead again, and I mean, flushed chead again, and I anı a verb ; transpose, tard am a beverage ; transpose again, and I am and $I$ am an article.

9-spanish ina.
L- ive w- th wo $\cdots$ spasish proverb.
L-ive w- th wo $\cdots$ san $\cdot \mathbf{y}-\mathbf{u w} \cdots \mathbf{l} \cdots \mathbf{r}-\mathbf{t}$. $\mathbf{h} \ldots$.
No letter is used the second time except 10 -numerical A 10-numerical puzzle.
mposed of nine letters.
I am composed of nine
My 8,3 is an article.
My 8,
My $6,7,8,3,4$ means to stop. My $7,1,8,3$ means noting comparison. My $6,5,4$ is a piece of turf.
My 2,9 means within.
My 6, 2, 7 means to rest.
My whole is a country in Asia.
My first is part of verb ' 'to sit."
My second is part of verb articles are manu
My third is a place where
My whol is how we like to see thinge

## Answers to August Puzzles.

 P JPO T
0
0 Is like a garden full of weeds.
3. Minnie May.
4. Baliantyne, DeQuincey, Dickens,
Goldsmith, Longellow, Ryerson.

6. Out of shadow springs the sunshin Out of dusk the daylight grows;
April flowers are no less lovely, April flowers are no less lovely,
For their birth beneath the snows.
$\square$
9. Tennyson.
10. Regard the world with cautious eye, Regard the world with cantious ey
Nor raise your expectations high, Nor raise your expectations high, You neither fear nor hope too much
11. No answer.
12. Scream, cream, ream, ear, a.

Names of Those who Have Sent Cor Eva Henderson, Fred D. Boss, Adelaide
Manning, Mary McArthur, Minnie E. Weldon, Manning, Mary McArthur, Minnie E. Weldon,
A. J. Taylor, Addie E. Davidson, J. W. A. . Taylor, Addie E. Davidson, J. Wg.
Forbes, Peter Lamb, Sarah M. Brett, Aggie
Willson, Eunice E. Ward, Lottie A. Sewell, Willson, Eunice E. Ward, Lottie A. Sewell,
Eilen D. Tupper, Will Thirlwall, Robt. J. Risk, ELlen D. Tupper, Jas. Paterson, Mary Marshall, Eltuon Moyer, J. G. Sutherland, Katie Miller,
Harry A. Woodworth, Ada Hagar, Edmund Stockton, Geo. B. Van Bdaricorn, Neil MMc.
Ewen, Willie B. Bell, Sarah E. Miller, W. S Ewen, WWillie B. Bell, Sarah E. Miller, W. S.
Howell, Ina Semple, Jamee Waton, Ada Armand, Becca Lowry, Carrie Chrisner, Armand, Becca Lowry, Carrie Chrisice
Stephen J, Smith, Henry Reeve Robert Wil
son Magie F Elliott, Sarah Wessel, Ameli son, Maggie F. Elliott, Sarah Wessel, Amelia
L. Samner, W. L. Sisson, Byron G. Bowerman, L. Sumner, W. L. Sisson, Byron G. Bowerman,
Agnes M. Frood, Mabel Robson, W. M. Head, Agnes M. Frod, Mabel Robson, W. M. Head Bella Richardson, Esther Douisa Ryan, Eva C
Kelly Jessie M. Fox, Charles H. Foster Kelly, Jessie M. Mox, Charles H. Foster,
Christena Hadcock, Thos, Armstrong, Amelia
E Wivalk Christena H.
E. Walker.$\underset{\text { HAgAR }}{ }$parison.
Maggie F. Elliott.
2. A man of words and not deeds 3. Minnie May.
4. Ballantyne,

## 1

## Bows and Arrows.

how to make and USe them.
At the present time girls and boye alike are interested in archery, and commendably so, , on two opposite sides until straight and thre
 me muscles of chest and arms, and at the of the edges, and mark in three-eighths of an gentler sex. Not one boy in a hundred can have a rod three-ighths of an inch squar make a good bow and arrow ; not because Round up by taking off the corners with a there is a lack of mechanical genius, but because the way to do it is not understood.
The first requisite is suitable wood. White until round ; finish up with sandpaper and a te rag moistened in linseed oil. It is useless to referable; buther hickory that is white, is whittle out an arrow and get it perfectly true preferable ; but oak, ash, and indeed any kind and straight, and unless an arrow is straight of wood that is tough and elastic, will make a accurate shooting cannot be done. Feather of wood that is tough and
good bow. The sticks to ake both bows and arrows make both bows and arrows
from should be straight grained and split out. Let the sticks season before working, as they are liable o warp. The bow stick to warp. The bow stick five feet in length, according to the height and strength of the party to use them. Split the bow atick an inch square or hereabouts ; place it in a position where it will not have a chance to warp much. It is best seasoned the shates the air irculates freely
Make one side straight, possibly can. This is for the outside of the bow, or the side that will be from you when using the weapon. Next work off the two edges until the the arrow on two or three sides, the latter being stick is three-quarters of an inch in the centre preferable. Strip a hen or goose quill and and three-elghths at ends. By use of a fasten to the shaft ly means of glue. Do straightedge you can get the tapers very true. As an aid to this line from end to end through the centre of the dressed side, and this line will be the guide in maring he hapers. Now thickness three-quarters of
thick in thee-quarters of
an inch in the centre. The stick at this point will be just three-quarters of an inch square.
Now do all of the tapering from one sideis, leave the outside straight. Taper inside from near centre to ends so that the extreme ends are square-three-eighths each way. In this shape you have the bow "sfuared up.' All of the' rounding should be done upon the inside, and that only sufficient to get a good, true oval, the outside being left flat. Sandpaper untith of toward the center, and only deep enough to hold the string. Cut these string notches only on the outside, so that on the inside the string can have free action. The bow-string should be fastened at one end of the bow, and the other formed into a loop so that it can be slipped over the end and into the notch by bending the stick. When not in use, always
leave the bow unstrung. The illustration will


## Rover.

Now, Rover, I am very sure.
There is no reason why ou shouldn't talk as
If you will only try.
You're big enough and old enough-
Say, do you hear me, sir?
And not a common cur
Come. do not be so lazy, now; spaak out- speak out, I tay Justry how easy tistot tatalk;
archery in the conetry

"Now, tell me, when you
scratched ma, whan ycratchen,
And made a dreadful And made a dreadful
hole hole
Among, the
day,
day, was it a rat or mole? "Why did you chew up Lulu's doins shoe,
Chere did you hide it? won't you tell ?
Well, that is mean of you!
"But say, old fellow, was it you That ate the candy up, That night we set it out to And didn't leave a sup? "You won't? Well, I'm ashamed of you!
Go off, and snarl and growl,
Like any other stupid dog,
Just fit to bark and ust fit
growl."

## Better Whistle than Whine

 As I was taking a walk early in September, I noticed twolittle boyson their way to school. The
rows for boys and girls. small one tumbled and fell, and though he was not much hurt, he began to whine in a babyish waynot a regular roaring boy cry, as though he were cross whine. The older boy took his
allow the feathers to extend to the end, but they may reach five or six inches up the shaft. The illustration gives both styles so clearly that further explanation is not necessary. Th feathere

A handsome bookcase can be made by having shelves fitted into a recess in the wall and suspending curtains made of double-faced canton,
furniture satin corate with embroidery or a simple band of elvet or satin across the ends, about fourteen nches deep, contrasting in color with the tains with a small rod and rings, so they may be easily pushed back to gain access to the books; loop away at the sides about three quarters of a yard from the floor with bands of ribbon or brass chains.
hand in a kind and fatherly way, and said:
"Oh, never mind, Jimmy, don't whine; it is a great deal better to whistle.
And he began in the merriest way a cheerful whistle.
Jimmy tried to join the whistle.
"I can't whistle as nice as you, Charlie," said he, "my lips won't pucker up good."
"Oh, that is because you have not got all the whine out yet," said Charlie; "'but you try minute, and the whistle will drive the whine Soy."
thle fid; and the last I saw or heard of the earnestly as though ware whistling away as earnes
life.

Dignity i
In the coolness which it impuch familiarity. like water freezing, somewhat elevated,

## © ammercial. <br> This Farmbr's advocate oprice,

( 1 , 180.
Another month of glorious harvest weather has come and gon. With the ber for for for fory thervest is now protty well through all ove Ontario.
wheat
Does not seem to have many friends. Even the speculators are somewhat afraid to touch it. Wheat is unusually low in the English markets-lower than it has been for 100 years Thus far in 1884 the average is distinctly lowe than in any year since 1780, and if the harvest only turns out as it promises to do, the carrent twelve months bid fair to close with a remark able record of prices in the history of the trade. Below we give our readers the average prioe for the past 100 years.
The average contrasts as under with the an nual averages since the year 1780

|  |  |  |
| :---: | :---: | :---: |
| Y | Year ${ }^{\text {¢ }}$ | Year |
|  | 1848....... 210 |  |
|  |  |  |
| 254 | $1846 . . . . .2148$ |  |
|  | 1845..... 21010 |  |
| . 310 | 1844...... 2113 |  |
| ${ }^{2} 65$ | 1843..... 21 |  |
| ${ }_{1876}^{187 \%} . . .216{ }^{16} 9$ | ${ }_{1841}^{1842 \ldots .} \begin{aligned} & 2174 \\ & 4\end{aligned}$ | 1806 |
| ${ }_{1875} \ldots . . . .2{ }^{5}$ |  |  |
| ${ }_{1874}^{187 . \ldots .21588}$ | 1839...... 3108 |  |
| ${ }_{1872}^{1873 \ldots \ldots .2188} 8$ |  |  |
| $1871 . . . .2168$ | $1836 . . . . .286$ |  |
| $1870 . . . .28610$ 1869 |  |  |
| $1869 . \ldots \ldots 288$ 1888 | ${ }_{1833}^{183} \ldots \ldots .2{ }_{2}^{6}{ }^{6}{ }^{2}$ |  |
| 1887 \%..... $3^{4} 5$ | $1832 . . . . .22188$ |  |
| 1866...... 2911 | 1831...... 364 |  |
| 1365...... 21 | 1830 |  |
|  |  | ${ }_{1793}^{1794}$ |
| $1862 . .1 . .215{ }^{\text {1 }}$ | $1827 . \ldots . . .2186$ |  |
| $1881 . \ldots \ldots 2154$ | 1826..... 218 |  |
|  | $\begin{array}{llllllllll}1825 & \ldots . .3 & 8 & 8 \\ 1824\end{array}$ |  |
| 58...... $2{ }^{4}$ | ${ }_{1823}^{183 . . . . .2134}$ |  |
| ${ }_{1856}^{1857} \ldots . .2{ }_{3}^{16}$ | $1822 . \ldots .2$ |  |
|  | ${ }_{1820 . \ldots . . .3}^{18210} 710$ |  |
| 3125 | 1819..... 314 | 1784..... 210 |
| 113 213 0 0 |  |  |
| 118 |  |  |
| $1850 \ldots \ldots .2{ }_{0}{ }_{3}$ | 1815...... 357 |  |

From every quarter comes reports of a goo wheat harvest. What the future of the mark depend on the way in which farmers will mar ket their wheat Should there be a free move ment this fall, we may look for still lowe prices, as that factor alone will very much in crease the cost of transportation, freights being very low at present.
Spring wheat is also fine all throughout On tario, and any deficiency in the acreage of fal wheat over former years will be counterbal lanced by the increase in the acreage of spring wheat with a $p$. bushels per acre.
peas, barley, oats and corn if not are all very promisi
above the average.
The unusual position of the wool market this season is worthy of a few remarks. This de pression is not by any means local, and bot ree trade England and the protected United tates, as well as Canada, are all pretty much effected alike. In England ho:vnward. This
was checked in 1879 and 1880 , when the prices were from $23 \ddagger$ c. to 32 c., but in 1881 the value of fine grown English wool was about 22 $2 \frac{1}{2} \mathrm{e}$. 1883 brought still lower figures, viz., 19c., the ool produce on record since 1559. 200 pound per annum, the value of the produce of the year 1864 was about $\$ 87,000,000$, whereas the same quantity at the present time would only epresent a value of $\$ 30,000,000$. This will ive some idea how enormous has been the hrinkage in the value of this portion of agri altural produce in the course of nineteen years. Over production no doubt is the cause and and America, and when this surplus product has been worked off matters will steadily unprove. The political situation in the States and the attitude of wool growers in their anxi ety to get the wool tariff of 1867 restored, will continue to keep up an uneasiness and uncertainty until after the Presidential election. The manufacturers will no doubt be in favor of continued low prices, and it has been suggested that they combine with the wool growers an mutual concessions made ; but their interest are so far asunder that no hope of any mutua rrangements can be entertained
cattle
The high prices paid by exporters of beef ca tle the past two years seem to have coole their zeal, and the result is that there is muc more cantious buying this season. Trade Montreal is quiet, and $5_{2}$ c. to ${ }_{4} \mathrm{C}$ por cattle weight are abo shipping cattle sold at 6. to $6 \frac{1}{2} \mathrm{c}$.
. been a deal of discussion the last few weeks over the export of American attle from Wyoming and Montana Territoriea through Canada to England. The ranch wners are the parties interested in this move nent, from the fact that while these territorie are well adapted to the raising of stock they are between two and trree yter weather yet the rough herbage of cos up or fit properly ender it impossible to imsh for the shambles. The ranches, where they are fed on corn, and so made ready to cross the Atlantic. What these ranchmen really want is that their cattle be allowed to pass through Canada and go on to England and there made ready for the butcher, or, if practicable feed in Canada.
The question arises, What advantage will this be to Canada, if any, and will there not
隹 nore or less danger of this country? No neumonia brougt cattle men would like to have this permission accorded them, but we ery much question the advisability of such neasure unless the Americaus can give us som reciprocal advantage in return. This is an im portant question and one which shoulh present and deliberately considered At the moment canala is not a pos any tity, lut in our opinion the time is not far dis tant when a very important trade can be done in these directions, and it will be well for Can questions in some public manner before they re finally decided. If store cattle can be pro
fably grown in the far west and shipped hrough to England, we question very much hether Canadian stock rai"s cannot raise such stock equally as profitably
aplpes.

The crop of apples in this corntry is far in dvance of that of last year. In New York tate the crop is estimated at $4,000,000$ bushels. Kichigan will also have a full crop. A full upply of apples is as important to the sanitary condition of the country as that of any other article, for it is one of the most wholesome ruits, and its proper use is highy condul The health and vigor ore 1 in the fllow The reports from
"That the apple crop of Europe, taking it a wher will be considerably under that of last year."
"That fall shipments of Canadian and Am rican apples to Glasgow, London and Liver ruled by supply."
chers
has assumed a very quiet tone, and the excite ment seems to be over for the present. What
cause the buyers had for so much anxiety to get hold of July cheese at $10 \frac{1}{2}$ to 1 ll . we fall to see, and we fancy in the majority of casss cause was purely imaginary. The helped the heat the past ten days will either. August may quality of these gor the same money, if not for ive $\begin{aligned} & \text { yet be boubht less. } \\ & \text { considerable }\end{aligned}$

| eat, fall, per bushel. |  |  |
| :---: | :---: | :---: |
| Wheat, spring, do. |  | 000 |
| Wheat, goose, do. |  | 000 |
|  | ${ }_{70}^{40}$ | - ${ }_{0}^{40}$ |
| Peas, do. | ${ }_{0} 00$ | 000 |
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## 

BRITISH MARKETS BY WIRE.
Cattle Firmer-Sheep steady.

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datter are firmerier than last week.
lat
Choice steers.
Tood steers....
Medium
Inderior ate and builis

(These prices
not reckoncd.)
${ }_{\text {sıикr. }}^{\text {sin. }}$
with a fair supply of sheep and a tair demand the
narket was steady.
market was steady
Best tong wooled.
Seconds
Seconds..........
Merino
netior and rams
(These prices are for estimated dead weight ; offal is
(Theee prices
not reck oned.)
Chessemarkets.


## -


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 $18,1884$.
of Cana-

$\qquad$
$\underset{\substack{\text { seven tact } \\ \text { No sales. }}}{ }$
 No report. Liverpeool cable today, 51 s . Live stock markets


Fall Fairs.

| Great Industrial Fair, Toronto, Sept. $10-20$, Agricultural and Arts Association, Ottawa, Sep Western Fair, London, Sept. 22-27. Berlin Horticultural, Berlin, Sept. 10-1 <br> Midland Central, Kingston, Sept. 30, Oct. 3. <br> Central, Hamilton, Sept. 30, Oct. 3. Southern Counties, St. Thomas, Sept. 30, Oct. <br> Dominion, Montreal, Sept. 5 to 13 . Lindsay Central, Lindsay, Oct. 1-3. <br> Lindsay Central, Lindsay, Oct. Peninsular, Chatham, Oct. $7-9$. <br> Prantford Southern, Brantford, Oct. s-10. <br> North-Western, Wingham, Oct. 7-8. West Simcoe, Barrie, Oct. 7-9. <br> West Simcoe, Barrie, Oct. 7-9. North Grey, Owen Sound, Oct <br> North Grey, Owen Sound, Oct. 2.3. <br> North Brant, Paris, Oct. 7-8. <br> Dereham, Tilsonburg, Sept. 29-30. |
| :---: |

The Farmer's Advocate. To our friends who wish for sample copies to deliver or to be sent to their friends, or to pervill send us a list of names sulscribe, if they anrd sample copies nill be sent next month, a card, sample copies nill be sent next
we then publish our mammoth issue.

The Cockshutt Plow Co., of Brantford, Ont. have a novel wing and point attachment for a great saving to the farmer. Examine their plows at the exhibitions. They turn out theally good plows, and are a reliable firm to deal with.

The Mail, Sidney, Australia, says are not yet fully convinced that the Amer
Merino is so remarkably profitable, or profitable than the Merino of Australia. The calculations are based upon different lines. I America, the wool producer stands protected to about one-third the value of any wool which the stud flocks of this colony. The animal are housed and clothed, and are stall fed. A increase in both wool and carcase is the result but in the case of the American sheep, the fied ing and housing causes an abnormal production of yolk, and the percentage lost in the washpen is enormous. This wool, allough so remark ably heavy in condition, finds a market at spocial aid afforded by the the with this, the overlooked If the Yermout wous in being sold in Anerica, were exported to don and placed by the side of Australian clips the Michigan breeders would soon learn which sheep were really the more profitable." While what is said in the foregoing in reference to the care of sheep, may be true of some of the "stud flocks" in the East, it certainly is not correct in the case of the flock-masters who grow by far the larger portion of the wool pro
duced in this country.
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 govern his further sowin
deem worthy of trial.
$\qquad$ hy Mr. Durand, of New Jersey.
tion in this sisul.e. or,
Two plants, Daniel Ben
 and keeping qualities. Tine tee plants of James Vick Strawberry. In addi-
this borre already favorable opinions expresed about his berry, it has this season averaged fully as latrye
berries as the Wilson and produced more truit one
lity large grower states, that he could fillare basket. soone
from the James Vick, than from any other strawberry.
New German Pansies skros.

 flowers. We are not in the seed business We procure
fibe . What
what we give for premiums from reliable seede
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Dover's Egg Beater- Beats the whites of the eggs
thoroughly ing ioseoconds.
The beatiny floats revolve


For Three New Subscribers:


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The White Mor or
Thain Potato Parer-is said to
mannutactured which will pare a potato better than
can

 given to our subscribers tor or otasininig Thewe prizes are
in ones, and are in no case e given to to the new subseribers.
The thnual subseription ( $(1.00)$ mus
pany the
 The FARMIRR'S ADVOCATB, London Ont

## Cheese as Food.

Cheese, when properly made and thoroughly cured, so that all of its substance is for food, has twice the value of butcher's for sustaining life, and is quite as easily di gested, and as wholesome. But all cheese even when well cured, is not equal to its high. est possibilities. Many circumstances inter fere with its perfection: In the first place, good cheese can only be made out of good milk, and this is not always at the command of the cheese maker. The milk which was good when it reaches the cheese vat. it mot be so or stale, or uncleanly; ad four hen is liable to wide variations in thereby varying the quality of cheese made from it. But these are only accidental irregularities, that are not always present, and cheese made from milk which is free from them should not be condemned on their account. They are avoidable, and do not, in fact, give much ground for complaint against the use of cheese. There are other things connected with the to well cheese equally avoidable, which give rise heavily against complaints, that are telling heavily against its good name and use. Bear-
ing in mind the indigestible and consequently unwholesome, condition of newly-pressed curd, or as it is called, greencheese, and remembering that chis condition only abates gradually, as
the cheese advances in curing, the ill effects of putting it into consumption too soon, while it is
yet in the green state yet in the green state, will be understood. in chee who are at all familiar with the traffic
cheese of very well that much of the cheese of cominerce, when it goes into con-
sumption, is too imperfect sumption, is too imperfectly cured to have its as to be unhealthful, and it is used at a loss because much of it is not digested at all. Thes Thus
the practice of thusting the practice of thrusting green cheese upon the
market gives rise to just grounds for objections to its healthfulness and value, and objeat-
ly restricts its consumption ly restricts its consumption, all of which would
be obviated by retaining the goods in the curhig room till they are fit for use.-Prof. $L$.

## How to Brink Milk.

Milk should not be taken in copious draughts like beer or any other fluid which differs from If we consider the use Farmer and Dairgman. physiological ingestion, that is, of food pro. vided for it, each small mouthful is secured by effort and slowly presented to the gastric nucous surface for the primal digestive stages. It is thus regularly and gradually reduced to curd, and the stomach is not oppressed with a mpp of half coagulated milk. The same prin liilk should be taken in case of he adurt intervals, and thus it is rightly dealt with by the gastric juice. If milk be taken after other
food, it is almost sure to burden the stomach and cause discomfort and prolonged indizestion, and this for the obvious reason that there is an sufficient digestive agency to dispose of it, severe the discomfort will be under these conditions.

See Notices, page ess..

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being
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ship, will be mare
or defective parts
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exhibitions tor Live stock Poun atry, Agricultural, Horti




## Western Fair <br> 1884.

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with with Music, Draming and Pergoectiverthenty. The peryear
in advance. The college has 15 thorought per year
 $\begin{array}{r}\begin{array}{r}\text { ful candidates. } \\ 224 \text {-b }\end{array} \begin{array}{r}\text { For Calendar, \&c., address } \\ \text { PRINCIPAL AUSTIN, B D. }\end{array} \\ \hline \text { R }\end{array}$





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Raspberries. Early Cluster Blackberry.
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GIS Send for fall Price List, free to all. W. W. HILBORN \& CO.

## Notices

Our readers will notice by referring to our advertising columns ${ }^{\circ}$ that Mr. Henry Arkell, of Arkell P. O., near Guelph, iutends holding of pure bred and high on the loth September Cotswold and Oxford Down ahe pigs, \&c., \&c. The sheep are mostly imported stock. As a prize-winner, Mr. Henry Arkell name stands high, and is a guarantee of the excellence of the stock which will be offer for sale.
The Directors of the Blanshard Agricultural Society intend holding their annual fall show at Kirkton on October the 9th and 10th, when liberal prizes will be given.
The attention of our readers is directed to the advertisement of the Alma Ladies' College, St. Thomas, Ont. The institution is deservedly popular and those desirous of making use of its many advantages, could not do better than to apply to Principal Austin for particulars
We have seen an analysis of the Excelsio Ton made by Thos. Aspden \& Son of Lon valu, Ont., which proves it to be fully worth its So po any farmer who uses it judiciously. who huar has this fertilizer become with those supplying the demand.
Good crops, steam threshing, and happy recently started no less than five of his threshing engines within a short distance of Guelph for the following gentlemen, riz, Messrs, McPhee \& Grant, Mr. John Clarke, Messrs. Mc. Laren, Mr. John Lamb, and Mr. John Fisher. The White Engine seems to handle the various separators as though they were playthings. The turn out of grain is very satisfactory in some cases. threshing as much as three bnshels per minute. These engines were sold chiefly through the reputation of one purchased from Mr. White by Messrs. Murphy and Gordon last year. Result, a lot of happy men and -Guel h M

See Stocl
See Stock Notes, page 28


WILLIAM FORSYTH, Sole Manufacturer PETERBOROUGH, ONTARIO.

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The GREAT SURPRISE WISHIIIG IIISTITUTION




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Address Faramr's Advocate, London, Ont.

Stock ${ }^{\text {Totes }}$
The highest priced animal at Mr. Geo. Fox's recent sale in England, was Cherry Dur Elmhurst 3d, sold to Mr. H. Y. Attrill of Goderich, Ont., for 210 guineas. The average on the entire offering, 39 head, was a little over on th
£50.
By a typographical error of our printer, and verlooked in going in haste to press, an error rept into our stock notes last month. Mr. G. Nankin, of Shade Park Stock Farm, Merivale, is represented as having a sow "two yond "td weighing 00 "hs.; it should have read "twenty months old." Oar readers will, in the figures somewhere was a mistake in the figures somewhere.
Now that the season for the sale of cattle will will send us an account of their patrons thoroughbred stock of every description. All breeders will find it to their own advantage to do so. As we usually commence mailing about the lst of each month, our forms must be closed before this date, and we should therefore be glad to receive notes about stock gossip at least a full week before the end of the month. Mr. F. Green, Innerkip, Ont., arrived home dition wis dition. It consitis o. .ine Short-horn bull Enbred by Mr. Duthi, bull, bred by Mr. Mar ble roan yearling herd bull, the Earl of Marr (47815), to their of the first prize the Provinl season. Vain Maid, bred by Mr. Show last Bruckton, sired by Mr Bruce's bull Eder dam Vanity, a cow having six direct crosses of Cruickshanks, a prize-winner at three different shows in Scotland ; The Belle, red, sired by Forward (46375), dam Mina by Comet (41250); Proud Duchess, sired by Norman (45272), dam Venus 2 d by British Champion (36273)-Venus
d was sold to Mr. Hill, Minnesota, U. S., in 1883 ; Monogram. Hill, Minnesota, U. S., in sired by Vienna (45731), a Cruickshank bull, am Monogram 14th by Prince Frederick 42178). Their Hereford importation consists
of a bull and five heifers, from the herds of of a bull and five heifers, from the herds of
Messrs. Hill, Felhampton Court, Griffiths, of Brierly, and Haywood, of Blakemore House,
Hereford ereford.
Mr. John C. Ross writes us from South Que bec, dated Aug. 19, 1884, saying: I just send
you a few lines informing here in the Lake Winniper with my and in good shape, considering we hadrather a bad, rough, dirty passage. I have four Clydesded three entire, one filly thee Berkhire pis sixteen Shropshire sheep, purchased from M John Evans, of Uppington, near Shrewsbury and six from Mr. Barber, a very fine lot, and first-prize pen of Southdowns at the Royal Mr. J. Nain came out with me and brought ut one entire cort, bought off Lord Elsmire, but lost him coming out; he also brought two Suffolk pigs from the same place, and a lot of Berksims from the same place, also fifteen a fine lot of Cotswolds, prize winners at and Royal, and a collie dog. We have been here over a week and don't hear any talk of leave to go home. 1 think it is wrong keeping stock so
long; our stock is all in fine order and to keep them here in this place to roast to death I hink is wrong.

Continued on page 986.


THE BEST IS THE CHEAPEST.


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STOCK NOTES.
(Continued fram page 284.
A very important test case under the new Act elating to glanders or farcy, was recently tried in the city of London, Ont., before Justice Peters. The circumstances were : George Davidson, of
Harrietsville, had a horse which he brough Harrietsville, had a horse which he brought
upon the London market for sale, when the upon the London market for sale, when the
Chief of Police noticed that the animal was sufChief of Police noticed that the animal was suffering from a complaint which he took to be glanders, and forthwith notified two city cordingly examined, the vetorine horse was a the disease to be glanders, was ordered to be kept isolated from othe animals. Not satisfied with this decision, $\mathrm{Mr}_{r}$ Davidson procured the opinion of two other veterinary surgeons from other parts of the county, who gave their opinion that the affection was nasal gleet. When the case was brought before the court, the Justice called Prof. Smith, of Toronto, who examined the animal, and pronounced the disease to be glanders. The Justice then ordered the horse to be shot and buried in compliance with the law. This is about as complicated a case as inquiry as to the efficiency of thive rise to an to the spread of conclancy of the Act relating domestic animals. This case proves that immense bill of costs may be incurred, especi ally under circumstances in which the Justice hows incompetency (which was fortunately not the fact in the case in question). These costs have to be borne by the municipalityexcept the fees of the veterinary engaged by the owner of the diseased animal. The delay ncident to such a circuitous mode of procedure may also prove to be prejudicial, or at least nointment of a qualified provided for the ap ounty who would have power to order the animal to be destroyed, thus peremptorily dis. posing of the case, great satisfaction to all
parties concerned would unguestionably be the result in a great majority of cases.
A pool of all the cattlemen holding between the Cimarron and Canadian rivers, in Oklahoma, has been formed. It is composed of seven outits, and will contain, when stocked up to the limits, 50,000 cattle under its control. A board of seven directors was elected, and o August 1st a full set of officers, consisting president, treasurer, secretary and pool boss. in their own brands and then put the pool brand on in addition thereto. The pool pays all expenses by assessment $f^{\prime \prime} 0$, cutc with the 1,000 cattle one in. The annul the pool plan will be cut down arse bin five per cent, as under the pool plat five men and 150 horses will do the work the it now takes over seventy.five men and 500 horses to accomplish. The name is to be Cimarron and Canadian Pool., As the brand has not been decided upon yet, we are urable
to give it, but it is very probable that the brand of the pool will appear in these columns soon.
The Hushondman suggests the inquiry Whether well-selected cows, not thoroughbred of pure breeding, "even if prices could other the same in each class."


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