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the most proitable, practical and reliable information the most proftatsbe, practical and reliable information
for dairymen, for farmers, gardeners and stockmen, ot any publication in Canada.
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THE FARMER'S ADVOCATE,

## Our Monthly Prize Essay.

Our prize of $\$ 5.00$ for the best original essay
"" Women as Farmers," has been awarded to on "Women as Farmers" has been awarded to
Mrs. Robert Warwiek, Wingham, Ont. The Mrs. Robert Warwiek, Wingham, Ont. The essay appears in this issue.
A prize of $\$ 5.00$ will also be given for the best original essay on "The best Methods of Encouraging Tree-Planting on Farms." Essay
to be handed in not later than Nov. 15.
A prize of $\$ 5.00$ will be given for the best orieinal essay on "The Future Management of
Agricultural Exhibitions" Essays to Agricultural Exhibitions." Essays to be in
not later than the l0th December. not later than the 10th December.

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Choice Premiums.
Read our list of choice, new premiums offered in another column of this issue for sending in new subscribers.

## 1885.

The remaining numbers of the Farmbr's
Advocate for the present year will be sent free to those new subscribers for 1885 who send in their names now.
$\qquad$
We want live, energetic agents in every county to canvas for subscribers to our paper We pay a liberal commission to agents wh devote their time to our work. Send for speci

Keep down barn-yard odor
Keep down barn-yard odor.
Are your implements und sr cover?
Are your implements undor cover?
"An impostor-The straw-stack king. Antumn is the germ of the harvest time.
A well summered animal is half wintered.
Change from pasture to stall feeding very gradually.
Icelanders numbering 580 have settled in Manitoba.
Cattle feeding now belongs to the higher mathematics.
Purslane only abounds on a rich soil. It
is good food for is good food for hogs when fer green.
The farmer is the only business man whin business at a loss.
Some dairymen in the United States are he. ginning to save fodder by giving their cows artificially warmed water.

## © ditoriaí.

How to Organize Farmers' Clubs. The idea of an organization or a club is sually associated in the farmer's mind with rowd of people. The sooner they disabuse hey beco a powerfully oresizer wily quipped to procure their rights and defend hemselves proinst the ever-increasing asil ants of their interests.
Every fireside gathering of two or three neighbors on a winter's evening is a farmers' club, and the only thing required is for the members to knowit. Every return of a friendly visit constitutes a separate meeting The only difference between this sort of a club and the largest one in the land is in degree, the former one being the first step and the atter the last. The only ground for complaint is the hesitancy between the first step and the econd. If there are only two farmers present at nne of such meetings, and the subject in dis pute or debate cannot be satiafactorily con lunetive ho the chair. If it should now oceur to one of the members present that a considerable amount f talk and time is being waster on account of a lack of system, the foundation of a great and successful club is complete. This little pivnt has become the fulcrum of the lever which has hecome the
moves the world.
The first thing that suggests itself in econ omizing time is to convert talking into speaking. Instead of both leaders talking at once or presenting one argument at a time, let the leader of the affirmative present all his points first. and in order to prevent clashing, let him stand upofi his feet, indicating the length of This is speaking-the parent of action The speaker whofeels frustrated at the conclusion of the argument will naturally ask for time to con sider the next question, and a subject for debate for the next meeting will accordingly be decided upon. Before a week expires these changes will get abroad through the whole neighborhood. Curiosity will draw one neigh hor to attend the next meeting; another will he drawn by the interest which he feels in the suhject to be debated. There are now four nembers in the clal. If one member now he is the secretary, and if prother meering that each speech shall not exceed ten minute or that each speaker shall not speak more than, three times he is the president of the cha After a few weeks the secretary will likely suggest that he can't carry all the proceedings in his hearl, and somebody will then propose that each member subscribe a penny to get snme paper and pencils, and if the secretary Iffer; to account to the other members for the way he spends their money, he is also treasurer of the society. It will soon be found that a coutine details. If two thaster in discussing their way home from the meeting dise anggestions which would be promptly, discus by clul, they would form a committee of agement. The second stage of organization is now complete:

By and by it will be found that the firesid accommodation of the farmer's house is too limited, and the echool house should now be utilized. It will be found that the questions of the most practical and vital importance hav quired ; other farmers' experience should now be compared with their own, and finally the combined experience of mankind systematically arranged. The latter is called science-or, in common parlance, "book-farming." The farmer who concludes that his experience may be of use to other farmers casts his vote in favor of science. The question now to be decided is, Where is the necessary information to b It is
It is an error to suppose that the constitu be and by-laws of other organizations should tion of many a club; for the natural aims and rules of no two societies can scarcely ever be exactly alike. Let the name and objects of the club be drawn from the bents and circumstances of the people of the locality, and written down under the heading of "constitution." There gulations governing the officers, member meetings, etc., come under the head of "by laws " The rules of order being naturally identical in all organizations, small and great, can with propriety be copied.
The aim of organizations is to help their members, and where burdens exist, they are portions of the community. The interests of the plain farmers are therefore in the greate jeopardy.
The Proposed Burean of Agricul ture.
It being announced that the Dominion Gov ernment havedetermined to establish a Bureau of Agriculture, it becomes the duty of every farmer to inquire into the origin and tendencies tinct features, viz. (1) an oxperimace two dis. and (2) a bureau of statistics. It is to be counterpart of similarly named institntions in other countries.
The science of agriculture may be said to have had its origin half a century ago, and since that time various experiment station have been established until they now number 140 on the continent of Europe alone. The earliest stations were founded by societies of practical farmers, and their usefuiness soon be came so great that the governments undertoo to foster them, but it is to the individual energy France that we are indebted for the agricultural science of continental Europe.

## In Englanl

affairs. About the same time English aspect ture was in a most deplorable condition, and every change was regarded as a benefaction by the tillers of the soil. Relief soon came, no by any sympathy or support from the govern ment. but by the means and enterprise of Sir I. B Lawes, aided by Dr. Gilbert, who estab lished an experiment station at Rothamsted There are now three stations in England, all free from governmen influence, and it is of Rothamsted experiments are chiefly due to their freedom from government control. England is now the foremost country in the world in her the questions at the questions
importance have light will be renght will be re, and finally the d systematically 1 science-or, in ng." The farmer ience may be of vote in favor of to be decided is, the hat the constitu. nizations should
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in England, all in England, all and fame of the iefly due to their niefly due to their
rol. England is he world in her
appreciation of agricultural education, and having gathered her lessons from both hemis. pheres, her best anthoritios are averse to state alds even in the diffusion of technical education amongst her agricultural classes. She has entablished successful dairy schools without government interference, and the thirst for knowledge has become so great that these institations are self-supporting.
When we turn our eyes to our own continent we see different influences and different conditions. In a new country on a virgin soil, where the inhabltants are in the acre almost illimitahle, where the highest possibili ties of agriculture may be hrough forth by muscuar orce, andromised by a change of location, there is little natural incentive to im. proved methods of cultivation. However, the first experiment station proper in the United States was also fonnded through the efforts of a body of intelligent farmers whose honest pur pose was the amelioration of their agricultural condition. One station after another was es tablished and the cries for state aid sounded louder and shriller. There is but one station in the Union, the Houghton Farm, which wa established by private enterprise, and hence free from political influence. None of thos subsidized or controlled by the governments of reve atalished a name in scientific agricultwa t which they seek to imitate. The professors are mostly competent men, but they are ham pered in their work by the exigencies of party The experiments to be conducted are dependent apon popular sentiment, and there is no har. mony or division of labor existing amongst the stations. The practical good they have aocomplished is mostly confined to the analysis of commercial fertilizers sent them for the purpose of detecting fraudulent vendors. They have not the confidence of the farming com. munity. Many of the bulletins and report which they distribute decfive the fow good they are doing the experiments are frequently acted upon before they are thoroughly and repeatedly tested. There are, however, a few exceptions to these reprehénsions, notably Dr. Sturtevant, director of the New York experiment station, who is not only a practical farmer but a born experimenter and scientista man who makes office subordinate to truth and many of his experiments and investigation have a place in agricultural science, but this is due to the extraordinary personal qualities of the man, which over
government system.
free to ather hand, the Houghton Farm is first to study political expediency, and in this way it has frequent opportunities of accomplishing good when the opportunity of doing so by the other stations is past. Its experiment are accurate and practical, and its undivide attention is fixed upon such experiments a will be of scientific worth, and hence also of value to the practical farmer.
Before consenting to an enterprise involving such an enormous expenditure of money, we
should endeavor to ascertain if we are less trammeled by party intriguers than other gov-
ernments. Are our public 'men better imitators than partizans in other countries? What is lacking in the enterprise spirit of our people as individuals: Are the burdens of taxation upon the shoulders of our farmers not yet suf ficiently oppressive? Is our army of office holders and offce-s?
If our Provincial station and those of the neighboring States were doing a useful work, by our Maritime and other Provinces. In the by our Maritime alture of new varieties of eeds and trees our seedsmen and fruit growers are doing all that is possible to be done, and many are conducting experiment stations of their own. This is just the state of affairs that should exist. It is from the farmers and fruit growers that agricultural editors procure the most reliable and valuable information, and their facilities and eagerness for its dissemination are far greater than those of governmen officials The same truths hold good with re gard to the other departments to be under taken by the proposed bureau. The the ment further propose to appors employes as reporters for the press is competition in the editors are areany so pubessity of pubhing only such nder her they know to be reliable and seasonable and any attempt to disseminate blue-book literature would be a bold step towards the servility of the press. If the Government insist npon this clause, they will have to pass an act compelling the press to accept their reports, which would have the tondency to degrade not only journalism, but aiso evary other private enterprise in hort of an ex. When an editor publisher fopery and inperiment, he upholds tegrity of the exper ark and mysterions to governments are
justify this action.
justify this action. ons diseases, the Government deserve great credit for what they have already done in this direction. They have forbidden diseased American cattle from crossing into our borders and so long as they strictly enforce their regu lations, we need not fear infection. The mor bid attempts of the American Govy have disstamp diseases out of their cormen, and the gusted many calm-headed by private subscrippropriety of raising funds by private sus prompt tion for the purpose of securng? and vigorous action is being energetically discussed. Very few of our veterinarians are pining for office.
In the matter of commercial fertilizers on armers require to be taught how to conserve he manure they have, instead of creatis of loyment for adulterators and experience has
the vilest kind. American taught us this valuable lesson. Besides, oxperiment stations havo value that has a a fow others, and with y Liebig, ther application one station is of no no use for the whole Dominion; every locality must make tests for itself, as is done with the different varieties of seeds.
Perhaps the greatest shams that have been
Perhaps the greatest
reference to live stock matters. They have been the followers, not the leaders, of enter-
prise. They have soized and nursed the booms from the ap of private speculators. When a craze breabs out respecting the merits of a certain breed, they must put their testing machines in operation. They must gorge for chines in operation. They
records or for the purpose of bringing their fattened animals u p to the standard of those speculators who gamble in prizes and pedigrees, and many of the feeding experiments have either practical nor scientific worth.
In the statistical department of the.proposed ureau, still greater caution shor ised. Bureau statistics They are guides for the beneit of the folators, The ruling prices politicians and speculators. The ruts are stored pin the granaries of the world; whatever is acking in this particular is supplied through the natural channels. It is true that the favorites of the members of parliament can be reached by means of bureaus without the aid or the press, but this fact rather disfavors their asefulness to the farming community am whole. If our farmers want to convert Ottawa, ike Washington, into a dumping ground fo all the rubbish of parizan them favor the speculators, by alther burean. Other estabishmof and art have flourished by enthusiasts in their profession ; so can agri by enthu
culture.

How to Save the Manure No. III.
By "heap" we do not mean the indiscriminate scattering of the manure all over the barn yard; fermentation cannot take place by so doing, for the mass is built up so slowly and the surface exposed is so great that the nitrogenous substances which cause the ferment are usually washed away before chemical action can take place.
The size of the heap depends partly upon the quantity of stock and partly upon the quantity of manure required for spring use. First, consider that, on an average, a quiredation, the time being somewhat more if the process is slow, and somewhat less if the heap is allowed to ferment actively. A soparate heap should be built every four or aix weeks ; the width may be six or seven feet, the height about the same, and the length will, of course, depend upon the quantity of manure that can be made during the time mentioned. In order to make sure that cormion to put some start, it would be orth other good absorbent ary manure, to catch any liquids that may nder to escape. If active fermentation is required, it will be well to tramp the heap a lightly as possible for reasons before stated. Now comes the perplexing question as to the regulation of moisture. It is plain that if more bedding is used than will absorb acilly if it is the heap will be too dry, especiasult will be loosely thrown together, anch is very injurions fire-fang and mion the other hand, if the heap to the manuro. On with rain, the air will be ex cluded, and consequently no fermentation cas take place. During the severe months, when
nothing but frost and snow is expected, no covering will be required, but the first heap, when drenching rains frequently prevail, can be easily topped off when a shower is expected, so as to prevent excessive moisture from enter ing, in which case no covering will be required. In any system of manure saving, no water should be permitted to flow from the roofs of buildings into the yard, so that if some of the rain is collected in tanks, provision is made against a denciency of moisture to ouick fermentation may be easily checked at any time by the application of a few buckets of water. When the temperature of the heap reach $80^{\circ}$ Fahr., carbonate of ammonia, a very volatile gas, is formed, and care must be taken to prevent i's escape in appreciable quantities, for ammonia is the most valuable part of the ma. nure. The heat first sets up in the bottom, gradually cooling towards the top and sides, so - that no gas can escape until the top or sides required, for a very small quantity of gas pro required, for a very small quantity of gas proreadily be detected. In winter the melting of the snow on the heaps will indicate that a loss of gas is going on. Sometimes the snow will be found in patches, in which case it is evident that the heat is not evenly distributed, and it is then a good plan to put a few forkfulls of fresh manure on the bare spots, tramping it compactly. If the heap is sufficiently mois and the temperature not too high, fermentation ceases with the formation of organic acids and up the ammonium carbonate, saline matter being formed, which are not volatile. The being formed, which are not volatile. The stroy all the weed-seeds, and under circumstances requiring their complete eradication, the temperature must be raised from ten to thirty degrees higher, and kept in this state for five or six days. In this case it is evident that large quantities of the gas will escape unless an abundant supply of absorbents is pre sent. tn countres where manure saving is re and topped off with dry muck for the purpose of fixing the ammonia and increasing the value of the manure ; but our farmers will consider this an extravagant procedure until they cone to our remarks on the process of saving manure by the use of absorbents without fermentation. All this may be considered laborious work before it is attempted; but when it is con sidered that, in addition to the saving of $\$ 19$ on every cow, or her equivalent, during the
winter months, an immense saving of labor in the reduced bulk and weight of the manure is made. It has been estimated by practical ex periments that three loads of fresh will be re duced to one of fermented manure, and that three tons of fresh is reduced to two of rotted manure. From this leteach farmer count for him-
self the quantity of labor saved during the busy self the quantity of labor saved during the busy
spring in hauling, spreading and tilling alone, spring in hauling, spreading and tilling alone,
neglecting the increased availability, the bene-
ficil eftect on the mechanical condition of the ficial effect on the mechanical condition of the
soil, and the interest saved on the capital insoil, and the interest saved on the capital in-
vested consequent on the conversion of the ma-
nure into plant nure into plant food two or three years sooner
than under the prevailing system of saving, or than under the prevailing system o
rather wasting, farm yard manure.
(to be continued.)

Our Northwest, Present and Future.
The importance of Manitoba and the North west as a factor in our commercial relations can scarcely be over-estimated. Wheat growing appears but this industry in these regions must not be compared with that of the early days in other portions of the Dominion. The agricul. ture of to-day is not the agriculture of then. The vast prairie stretching between the Saskatchewan and the base of the Rockies, tempered by the mild Chinook breezes, makes that egion well adapted to ranching. But whether, on the whole, specialties or mixed husbandry oo become the more absorbing interest, depend pon circumstances which are yet to transpire Theoretically, it makes little difference whethe full crop overy second year the intermedia easons being marked ty total failures; but ew failures of this kind would unquestionably drive the yeomanry into the system of diversified farming. If they study the history of some of the Western States, they may see anther controlling influence in the mists of the ature. We refer to the control of the carrying trade. If high rates of transportation shoul revail, farmers will he driven into the system oncentrating their grasses and grains into airy products, and an impetis will thus be ent of other portions of the Dominion; for though our wheat raising capabilities here ore gradually diminishing, our adaptability to airying can no longer be questioned. Let each Province devote its greatest energies to hose pursuits to which its soil, climate and ther conditions are best adapted.
Yet Canadian settlers in Manitoba and the Northwest can learn much from the experience and failures of their past lives. They have earned the practical and instructive lesson gr, $n$ matter how fertile the soil, grain years with impuity They harg series of the system of tillage which consisted only of tickling the ground, resulting in the mastery of weeds which absorbed the profits, is a nost pernicious practice. Any monotonons reatine of farming, too long persisted in, If we resign our affairs into the hands of na ture, the grain belt will move towards the set ting sun with almost imperceptible gradations,
followed by the movement of the dairy belt, at helowed by the moveme
everying distances.
The pioneers possess many advantages over tose of Ontario and the other older Provinces. ages than their fathers, they are better advan ized, and manifest an instinct for infusing their enthusia-m into the feelings of their fellow pioneers from foreign lands. The aptitude they have shown for organizing in matters per taining to their personal and collective inter ests is marvellous, especially when it is con-
sidered that their habitations are scattered over such a vast extent of territory. This isolation however, cannot but act prejudicially to the educational advantages of the rising genera by concerted action in their industrial affairs,
cannot prove to be of inferior utility to that gained in the best equipped public schools. The objection which many foreigners urge against the climate is not participated in by Canadians. The dry, bracing winter is less keenly felt, more enjoyable, and promotive of better health for man and beast, than many of the slushy winters of the older Provinces. While we a ficent forests thereby hoaping further ruin and disgrace upon our climate, they take warning by our fatal experience, and be stimulated to improve their climate and control their winter blizzards and summer droutha by hemming in their fields with waving walls of trees, and dosting their prairie regions with monumental forests. In our last issue we presented facts and illustrations by which these ends can be most.successfully accon. plished. Another deviation from old Canadian methods is the occupation of immense farms, and the establishment of model farms by the C. P. a very large scale is still a doubtful enterprise, and the fate of the great Dalrymple Farm in Dakota has shaken the faith of many capital. ists in such gigantic undertakings. Prairie lands are particularly adapted to big and high farming, and if it tends to no other good, it will be an edncation centre for small farmers, and will possibly stimulate them to greater exertion. With regard to model farms they will likely have the same effect; they may hasten development in many new directions, and an ppeortunss with that of governmping their of the same kind.
There is a
There is a possibility of over-production and onsequent reduction of prices in the beef busiucts and pesent relative prices of field prohan in the former, but there is still a heavier pressure in operation. Wool and mutton raising States, and the sheep owners are discussing the propriety of changing their investments into beef raising.
The English, as well as the Americans, are eginning to recover their senses in live-stoc atters. In an address delivered at the Con Lord Fortescue made the following character stic remarks, which should be taken into pro ound consideration by our farmers and stock en:-"I think Mr. Jenkins is right in sug gesting that the Royal and the other large agri ultural societies might usefully divert, to the ssistance of the practical education of farmers ons for farming, some of the money which they ow (injuriously as I believe) devote to the en ouragement of so over-fattening what are miand deteriorate many more for breeding pur poses. ${ }^{\prime}$

The Farmer's Advocate has a larger cir culation than all the other agricultural paper in Canada combined. It is the best authority on all questions pertaining to the differe departments included in its columns, and it articles are fresh and original. As an adver Send for a free sample copy foreigners urge
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th waving walls irie regions with ast issue we preby which these acoon.plished. Canadian meense farms, and ms by the C. P. y. Farming on rymple Farm in f many capital. kings. Prairie to big and high other good, it
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ON THE WING.

## Our Dairy Interests.

 When passing through the building that contained the dairy exhibs ats ana, we met Mr. Ira Morgan, whential gentleman with the farmers and directors of agricultural affairs in this locality; in fact, his voice will have great weight in the general management of agricultural affairs in the Dominion. In conversation with us he said his policy was to "Conserve such things as were right and reform such things as were wrong." Would it not be well if all could adopt that motto and faithfully act upon it? We hold Mr. Morgan's abintes in great esteem, and for the best interests of the farmers, as from the present prospects there appears a proba bility of great changes and large expenditures by our governments under the name of agricul tural expenditures. Mr. Morgan has it in his power to do more good or harm to the agricultural interests of this Dominion than any other farmer in it. This is our opinion, for the steps now taken will bear their print in future years. This gentleman has been a member of the Board of Agriculture for many years; his voice carries weightthere. He knows what is right and what is wrong. He may not be able to carry wrong. He may not be able to carry
his points, 'but ide must only hope that the Board will adopt Mr. Morgan's motto. I each of the members or the majority would only express their views and let their voices be heard before any radical changes are made, we feel satisfied that the present deplorable posi tion of the Board may be so changed that it may again become an honorable and beneficial institution, and regain the lost confidence and respect it once had. We have always been in Board, and have exposed many of its defects in hopes that they might be remedied; but up to the present we regret to say they have yearly increased. Sooner or later a change musi come. It would be far better for the Board to take upon themselves to check the evils that they know to efist, than to increase the growing public dissatisfaction.
the cheese exhibit.

Mr. D. Derbyshire, of Brock ville, is in charge of this department. He is one of, being native of our country. He is a conspicuous person, standing physically above any member of the Board of Agriculture, and perhaps any of our legislators, towering above all in th building, and well proportioned. He wa born in the county of Leeds, in 1843, and
menced cheese making in 1873. In 1877 e managed seven factories, has been severa times elected Reeve of his native municipality by acclamation, and is now the President of the Eastern Dairymen's Association. In 1883 he paid out over $\$ 600,000$ for butter and cheese this year it is expected to exceed that sum He has gained the confidence of the public, an will be heard of hereaiter. Boys, do not be afraid of doing your duty at the milk-pail. This position is better than being the manager of a score of broken banking or mercantile

In company with Mr. Derhyshire and the
Hon. A. M. Ross, the Commissioner of Agriculture for Ontario, we inspected the exterio of the rows of cheese There were various qualities. We asked to be allowed to taste the best cheese in the building. The tester was inserted into a cheese that had the first prize ticket on it, and we all tasted it.
We asked if it We asked if it was made by Mrs. Par
sons. "No," was the reply, "but was "-placing the tester in a cheese that a second prize ticket on it. We all examined and tasted it. Mr. Derbyshire said that was the best cheese, and that was our unanimous opinion by great odds. We broke a smal piece off from each of these, the first and second prize Stilton cheese, wrapped them separately in a piece of paper and placed them in our vest pocket. We took these pieces with us to Lon don, and took them to the Western Dairymen enquired for the most expert judges, and $\mathrm{Mr}_{\mathrm{r}}$ Caswell's name was suggested, he being pro bably the most extensive operator in the west. We took one of the papers from our pocket and asked him to taste the cheese. He said: "I will not ; that cheese will taste of you ; it has been flavored by the odor from below your arm pits. If I were to carry a piece of cheese like hat it would draw its favor from my feet. Cheese should never be carried on the person, plained to Mr. C a ghe the cheese. He smelt it and looked at it, and said: "That is a Runter ; it is not a Stilton. Mrs. Parsons can protest and get the first prize." Severaf dairymen were present. Mrs Parsons has repeatedly complained of the injustice done her ; all cheese-men know that none have succeeded in making the real Stiltons equal to those made by her. Why should she-a lady-not be heard and heeded? Leading American and Canadian dairymen have tried to mitave and even inruct her, and failed to sacceed indir plans. tanding. The very sight of the cheese, with out testing, should in this case have been sufficient to tell a Stilton. When the highest skill in the production of cheese is and has been so repeatedly disregarded by what ought to be our best authority - the decisions of Pro incial judges-it must reflect on all connected and steps should be taken to find out the rea sons, and the remedy applied. There has been ters. Excuses, apologies and evasion will not always avail. We deemit our duty to make this public in the interest of the ladies. Justice must be done to all or dissatisfaction will increase.
butter.
When passing along the display of butter in the forenoon, a lady came in to see the ticket. We inquired if that was her's, but she said, "No; this is ma's butter; she has been awarded the first prize and gold medal for the best lot of 50 lbs., and 1 have been awarded the first prize and silver medal on my baskel of This should be no small honor-gold and silver mother and daughter to carry off at a Provin ial and Dominion Exhibition. Mrs. Ballantyne
is this lady's name; her mother's, Mrs. © Gee
ham. They are both from Smith's Falls. We aid. They are both from Smith's Falls. We " No, we never exhibited at the Provincial be fore. I exhibited at our township exhibition and took first prize last year. We thought we would try what we could do at this exhibition, as it would not cost us much to come here." In answer to inquiries we ascertained that they
keep the common Canadian cows; they keep everything clean about the dairy and set their milk in shallow pans; let the cream ripen before churning; churn with the dash churn; salt by guess. They appear to have the same ae thousands of our women have-an intuitive knowledge of the requirements for making good butter, as Mrs. Parsons knows how to make good cheese, which seems to surpass all the knowledge that is imparted by the mass on public expense ; in fact much of the govern ment literature has been found to be mislead. ing and of an injurious nature. We asked Mrs. Ballantyne her opinion about churns. She said she took her butter from the churn when in the globular state; she did not wish it to gather in to large lumps. She intended to procure one of those end-over-end barrel churns, shown in en graving on next page, near the dash churn; 1 made by Wortman a Whe dash churn because if it is worked a little too long it will not gather the butter into lumps as soon as the dash churn will. This will appear a strange reason to many, particularly to those who wish the churning done in a few minutes; but to those who really know how to make good butter, it is of importance to know that too much haste in churning will deteriorate the quaity. Ther have been many churns sold that are onl detrimental to the quality of the buter pro. to use his abilities to induce farmers to purchase implements or utensils that have not the merit that other wares have. Of courne incorporated bodies must be shielded, but the lose falls on the farmer, who wastes his time and money in using implements of third quality or useless; also in paying for literature that he never asked for, and which may have been placed before him for purposes if to believe that any nerest. If we are led to believe thers and is for them, we would immediately give it our hearty support; but when expenditures are made for other purposes under the name of gricultural advancement as a cloak, no farmer is doing his duty unless he uses his influence to correct it.
This journal is and always has been a sup. porter of agricultural education and agricultural exhibitions, the Provincial in particolar. It has not abandoned that course, but it has met with the disapproval of some for exposing too plainly some of the should have more information from the officers and members of the Board. Our agricultural affai is should not be conducted in caucuses or in whispers, but as stated in the editorial columns of a leading political paper, "things should be conducted openly and above board." Are they, have
We met Mr. G. Whitfield, of Rougemont,
We they be
 opening a market for our Canadian cheese $\quad$ with the fair at Toronto, and that he con- the Governor and Lady. But we only hope in Barbadoes and the West Indies. To siders fair" a mere suitable name than "excheese factory, and has a large herd of cows. state of affairs ; also that he is inclined to favor He wished to procure a first class cheese-maker attractions, and that we might expect his sancto make the right kind of cheese that would tion to large expenditures in Ottawa for agrisuit that climate. We introduced him to Mr. cultural purposes. We have the audacity Derbyshire for full instructions as to the best to suggest time and patience, to see first the mode of procedure. It is well for us to look result of the present changes and effects of around and send our wares into foreign parts. We wish Mr. Whitfield success in his undertaking. resent expenditures. hat each will do his or her duty better to ad. vance your interest than the designer of this hustration has; if they can do no more good tration.

## Fatal Hog Disease.

We also met the Hon. J. H. Pope. We comour illustration. Wrawing your attention more particularly to the our doors to the American cattle unless through great and growing dairy interest, which has quarantine. Mr. Pope admits that we have than the grain or stock interests of our country, arantine. Mr. Pope admits that we have than the grain or stock interests of our country, the malaly results. When seized with had foot and mouth disease in Canada, and and is in all probability likely to remain so. throat, the affected"part presentingal dirty,


The Dairy Exhibits at the Provincial Exhibition, Ottawa, 1884.
considers that with our present quarantine we $\mid$ Our well wooded, well watered and well grassed $\mid$ brownish appearance, and death usually follows can bid defiance to it and keep it from our
herds. We do not think a single case of it
and cheese than a better quality of butter
in from twenty-four to forty-eight hours. It is ande of it can be found in Canada at the present time. We also met Hon. A. M. Ross, Commissioner of Agriculture for Ontario. He expressed his doubts as to the advisability of continuing the govern
tion. $\stackrel{\text { tion. }}{\text { We }}$

We were present at the annual meeting of members, directors, etc., held on Thursday tendance was very meagre in ottawa. The at what it used to be. The minutes were passed and the president read his address. A resolution was passed commending the continuatio of the grant. There was no life, no animation, no discussion, as formerly. and cheese than can be produced in more in from twenty-four loss than 1,000 hogs have southern climates, or on treeless and poorly died in the county during the past month, as watered prairies. With care we can make such many as 200 having perished in one township, | reputation for butter and cheese that they | with no apparent cessation in the spread and |
| :--- | :--- |
| will be sought for by those who desire the best | fatality of the disease. Thus far all efforts to | will be sought for by those who desire the best in other lands.

We wished to tatity of the disease. Thus far all efforts to We wished to represent Mr. Derbyshire and Mr. Morgan in the foreground. The Marquis of not one of the animals attacked by the strange building: the Lady are passing through the malacy has recovered. It is feared that the culture ; Hon. A. M. Rops, Minister of Agri- usual heavy fall and winter shipments of Agriculture; Mre Mr. Whitfield, the Presid Mr. Whitfield, the President, and other that requisitions on foreign markets will have background. But unfortunately seen in the to be made to supply the home demand
We listened to the Governor-General's address; our best artist on the ground, and some of

hois e good pleasant who have seen Mr. Ira Morgan may recognize | Dairyman, of Syracuse, N. Y., of October 10, |
| :--- | :--- |

has reached Naum-Churk. Question=Io not this disease rather too near our borders? For merly some said there was no danger of it in the east or north, but only in southern and western States. American pork and American lard are being imported into Canada; American hogs are passing the ane still slaughtered her do not know if they are stil slaughtered her Westphalia hams ; they were when we last visited some of the packing houses. Should we not take immediate steps to guard more effectually the health of men? The health of our stock should be regarded more than party, monetary or railroad influences. If we main tain the health of our stock, it is a great step toward maintaining the health of men. Man will not consume meat that is pregnant with death, if he can procure wholesome food. It requires no additional taxation, no loss to any farmer, and only a little precaution. Shoald we not take every possible means to main tain the healthy repatation that our stock now has, and prevent it from being classed aat foreign meat. cill command nearly double the price that American meat will, if we take active steps to maintain the healthy state o our stock. Perhaps the Jews had greater and sounder reasons for discarding the hog than we are aware of. A healthy hog or a healthy man we do not object to, but who would approach a man with a pestilential disease? The dead hog has imparted death to man previously. W have had warnings. Canada should have and hold a reputation of having the healthiest cattle in the world. Is this not a reputation wor: striving for? Would not our farmers coir meat, much higher priced foultry, than they now command The greatest pedigree that our stock men could have would be, "It is Canadian." The best brand our butter and cheese package could carry would be, "Canada." It would carry the golden' ring of purity to all lands. We trust that every one of our exchanges and readers who may see the necessity and propriety of these remarks, may lend their aid to advance these views. Prevention is better than cure. There are complaints of the lack of condence in railroads, in some monetary instic tions, and many business men. Let us preve shock of public conidence in the lard, butter or cheese produced in Canada.]

There are 95 species of forest trees in Can. ada, of which Ontario embraces 65. Only three of our Canadian species, namely, the hesnut, the yew, and th9
Mr. E. C. Tisdall, in a paper read before the Dairy Conference, Gloucester, Eng., makes some very striking remarks with reference to the condition of breeding cattle. He main kept in a fair growing condition, a higher state acting prejudicially to the generative and the milk-secreting organs. He holds that disorder are liable to take place when the proportion of fat exceeds one-twenties on the evil practice o He lays partion for the purpose of competing for prizes at shows.

## Dpectat Contributors.

## A Chatty Letter from the States.

## 

Exhibitions of cattle at all of the State and istrict fairs in the West have been greatly artailed, if emperty cattle stalls was the com motion raised a month or so ago about the outreak of contagious pleuro-pneumonia, whic has not yet subsided. At St. Louis, where there is always a splendid display of bovine beauty and usefulness, there was not a single animal of the cow kind. At the Indiana fair the much abused Jerseys were the only ones scheduled, but the awards of premiums in the general cattle competition were as good as tolen by animals that would have stood little or no show ir the owners of sot the to the herds had not been afraid to let them go to the It mo possible that this same trouble which does not seem in a very fair way to be adjusted before that time, will interfere some what with the success of the November fat tock shows at Chicago and Kansıs City. Duubtless there will be a diminished attendanco of breeding cattle. This cannot rightfully bo egarded as a loss when it is remembered that they are shows for fat stock and not general fairs. A good many sales of importance aril advertised to come off, however, and there wid certainly be a considerable display or core breeding calle on the will not be failures, to be hoped thery likely to be for the reason but they are very bing created by the veterinthat place-bunters has already caused a depreciation of at least twenty per cert. in the value of nearly all breeds of fine cattle. It is not among the improbabilities that the bidding will be so spiritless that a few buyers will ge some big bargains, and the cattle will be withdrawn, as numbers have been since the present excitement commenced.
There is no doubt that the United States are sadly deficient in competent veterinary inspection, but the people are scorcnorant and untwo fires. A large number osional rascals are principlod dive great number of offices created and secure large congressional appropriations, while a great many of the leading cattlemen of the country, in their earnest zeal to have ample protection brought about, are making the strongest kind of support for these very unprincipled fellows.
What will be the upshot of the present diffi culties of the cattlemen is not now possible to tell. November 13 15 there which it is tion of cattlemen in chicago, all be discussed from the thought the matter will while in St. Louis, during al aring ner convention at which it is hought there will be considerable opposition to the so-called "cow-doctors." Meanwhile the herds of the country are unprotected by thor oughly competent men, and all fine stock value are depreciating on account of the reporta whether false or true, being made by the go rnment officials.
Truly the breeders of Jersey cattle must r
alize the force of the old saving, that "every dog has his day." A very few months ago what breed of cattle was enjoying such a boom tle under such a ban, and it is all on account of the fact that the reports of contagious disease were fimited to that breed. It is rather hard on those who have bought cattle of that breed or speculative purposes, but so far as the gen ral public is concerned, there may be some ompensation in the present trouble. Boom 0 not benefit the majority, and no one can y that the beaucing rather more than their sys were not have
hare of big prices.
It is ridiculous how our agricultural exhibitions are being converted into horse-racing and eneral sporting meetings. What do we have airs for if not to have the agricultural resource of our various farming communities brough out as the principal features? It is not appro priate for fair managers to attempt to rival ourth of July celebrations, pyrotechnically, or he great travelling circuses. Experien proves that more people, though a mitracted by hitted a different class, ace, a sham battle, fireworks or a bullfight, than to an exhibition of solid, substantial agricultural possibilities; but are county, dis. trict and State fairs to be run for the money they will net the grasping, catch-penny mana gers ? We say, No. Fair associations must not be controlled by the horse-jockey element if the best results are to be looked for and realized It may seem too conservative, but the writh is of opinion that to abolish all trotiog orm tions and substitute waligg contl horses wet eil than any other plan that oould the proud Thermer should not a tempt to compete with those who devote their whole time, money and attention to producing or trying to produce the fastest flyers. Heavy draft horses and good ordinary farm horses should be taught to walk faster before the plow and the grain wagon. If for no other reason, the feature of jockey racing at fairs should be abo ished because of the degrading, demoralsing fluences and surroundings which sures.
How shamefully the common cow is abused just because s
Pope says :
"Honor and ahame from no condition riso
"Honor and shanke from no condet honor liee
If our common farm animals were fed and cared for, and culled and selected every year as carefully as are the expeck would soon cease high pedigree, our scrub is an age of experi
 ents. take a common heifer valued at $\$ 30$, nd a high pedigreed, 8300 blue blood of the ame age, and for just one year subject them both to the same kind of treatment, and the note results and compare profits on the two in vestments.
The corn crop throughout the West is im mense. The farmers in some sections began eeding new corn to hogs as early as many hog of August, and there are now a good mane fat almost ready to come
Vast numbers of far western range cattle ar
this year being put into distilleries to fatten on
the Farmer and , of October 10.
dop during the whinter. The thigh profits on that kind of feeding lately have had the effect of attracting a good deal of attention to it, and overy there will be a very large number of cattle made fat on corn.
Mule raising is one of the most profitable kinds of stock raising engaged in in many parts of the South and West. Mules mature earlier, live longer, eat less, are hardier, and stronger, and sell for more money than horses. These are some of the well founded claims set forth by those who advocate mule breeding. All that is necessary to commence in the business is to secure a thoroughbred jack and a few common mares. The light mares of the southwest are a good deal used for the purpose, but it pays best to have good sized mares, because for small mules.
The dressed meat system is gaining on the old mode of live stock shipments very rapidly. Not only is the trade increasing so far as cattle are concerned, but also in the sheep line. Chicago dressed mutton is now going out in nearly this has the desired effect of improving the character of our mutton sheep and causing the attention of flockmasters to be at least divided between the wool and mutton production of sheep, it will be well. New Zealand promises to flood the British markets with cheap frozen mutton, but as yet this continent has not been consumption. There is a mreat. demand for choice mutton sheep.

## Taxing " Scrubs."

 by marshfirld.One of the stock-raiser's organs has discussed the propriety of taxing "scrub" bulls. It means to do the slow farmer a kindness by cracking the taxation lash over his head. There is an affair of "conscience" involved, which he is "violating" every moment of his
life, and his "lust reigns supreme." This mild impeachment must insinuate that he is deliberately ruining his own pecuniary interests.
The motives which prompted such a suggestion cannot be overlooked by any thinking farmer. Farmers' interests are diversified. One interest grows into prominence ; it gains a leader, organizes, establishes an organ, forming the nucleus for a boom. How providential it
is that farmers are hard to move! If it were not so, those overtaken by the first breeze of the fruit growers' boom would directly turn their farms into gardens and orchards, and live on fruits; those stung by the busy-bee boom would have their acres beclouded by swarming bees, and live on honey; those flapped or chuckled into the poultry boom would convert their fields into poultry yards, and live on fowl; in the same manner the dairy boomers would set us a table of butter and cheese, and the plumed knights of the live-stock quill would prescribe an exclusive diet of adipose.
If the grain and grass growing and the ma-
chinery interests were now organized chinery interests were now organized and paper representing each of all these different industries, then there would be a fair warfare berminating in the survival of the fittest. So
tourg thresystemrof mixed husbandry prevaito,
and the back bone of the farming body remains and the back-bone of the farming body remain
unorganized, these reflections must point out the necessity of every farmer taking a fearless and independent paper that not only represents all his diversified interests, but one that also gives each interest such a prominence as bears its proper relation to the natural adaptabilities which overdoing and overbooming can be pre vented. Nothing but a perverted "conscience" and the basest "lust" for pelf could move stock men to open markets for their goods by laying down the principle that the farmer is to be taxed for his poverty, ignorance, or his neglect of his own private business affairs. Where would the application of the principle end How many government officials would be re
quired to enforce the observance of such series of laws?

## But I mo

But organ es to rectfully join issue with the organ as tio inaction or negligence on
our part in live stock matters. Many of our part in live stock matters. Many
us in dairy districts do not want to raise calves, and we have discovered that a native cow will give as much milk when put to a "scrub" bull as when put to an imported one, and many of us have also discovered that by skillful selection and management we can improve our native stock more cheaply and rapidly than by the introduction of pedigreed blood we have found them to be extremely suscepti ble of improvement by selection and responsive to generous treatment. They are true to thei kions in most localities. Besides those condi who advocate improvement by the infusion of foreign blood are waiting patiently for the time to come when a new breed will be discovered that will cast all known breeds into the shade. This day cannot be far distant, for all the breeds we have heard of had their boom. Why didn't the organ tell us what bulls were to be substituted for our defunct "scrubs?" Because it dare not, for this would be showing parti ality to a parti ular breed, and the organ's ex istence depends upon its neutrality. If we are to judge this for ourselves, then let us be our own judges all round.
From my experience of taxation, stock, and tax is on the wrong poll. There is something else that has greater need of weeding out than "scrub" bulls. I refer to scrub editors. It has been said that the man who fails in every other pursuit is still good enough for a farmer. This truth is but half told ; for if he then fails as a farmer, he can still get a license to be an agricultural editor. I don't care whether my pro posed tax is put on the editor's head or on the head of the farmer who takes his paper. I will submit to be taxed myself for at least a half a dozen of the agricultural papers which I take. rll not take them any longer. "1 now feel more "onscience" by doing so, and that my "lust" for the ridiculous "reigns supreme."
-
In order to increase the size of common fowls, the cock selected should be a light Brahma, which will give heavy feathering, compact size,
and small comb. Such a cross will lay earlier than the pure Brahma, and make better nurses for chicks.

## Wouttrg.

## Providing a Supply of Green Food.

 The Farm and Garden says:-"One of the reatest difficulties in the way of keeping fowls upply of green food. As November is a month during whieh many of the crops are put up for winter, it is an excellent time for making proision for the poultry also. One of the best regetables to use is cabbage, but in order to reach it conveniently for use, some better method than burying the heads under ground must be adopted, and this may be done by placing them close together, with the roots un er ground and the cabbage covered with straw and corn-stalks, which may be moved whenever a supply is desired. As poultry are not and left over night in cold water. In fact by lacing turnips in cold water to thaw, they may be chopped and fed raw also. A portion of raw vegetables at times is highly relished by the fowls, though a mess of cooked food is also excellent.We can cut rye this month for green food. The rye will not be very tall, but so much the better. When cut, let it be dried enough to prevent fermentation, or place it loosely in the barn. It may wilt; but it will be tender when moistened with warm water. It requires but ery little labor to chop a foll in in hort lengths once a day, and if fed in connecon with coplige, we might recommend spinach, lettuce and turnip tops, but the rye and cabbaye may be more easily procured, and also ied with less labor. We are not stating what hould be fed, but what may be done in No. vember. Of course, if one has lettuce in cold rames it may be fed, but lettuce is too valuable at this season, while cabbage is always cheap, especially as a single head furnishes quite a large meal for a flock. The hay from the second growth of clover may be cut up in winter also, and a portion should be placed side now for that purpose, while the suall white potatoes may be used advantageously, ood need not be fed every day, as a rule but if allowed three times a week will be found very if allowed
beneficial."

When the chickens are afflicted with diarhea, one of the best remedies is boiled milk, thickened with corn meal while boiling. Let it remain until nearly cold, but should be fed warm. A pinch of red pepper will improve ${ }^{\text {warm. }}$

Ducks should be allowed as much liberty as possible, as they are not partial to confinement try yard with hens they become quarrelsome, and do more damage than they are worth, and for that reason should be kept scparate.

Oats should always be ground, if possible, and mixed with the soft food. Sometimes the hens will reject the whole grains, and when in hot water, when they will be eaten readily, as woll as being more digestible.


Useful and Ornamental Trees.
We have heard of gne farmer near Rochester,
N. Y., who planted a row of crabapples around his farm for ornamental and shade purposes, and he made more money from them than from all the other productions of the farm. In the northern part of our Dominion they are the only reliable fruit of the apple variety that can be depended upon.
The accompanying illustration was taken from a photograph of Mr. A. R. Whitneyste were set in 1874, and the trees have now graits were set in 1874, and the trees have now Whitney's No. 20 , is a great producer, and is leo good for ornamental purposes. also good for ornamental purposes.
and cuttings of such trees as are known to be its culture for dissemination throughout the hardy. They might make quite as much by country. The fruit is exceedingly large for paying atten

## Crab Apples.

by hortus.
$\qquad$ grown in Canada the crab apple deservedly occupies an important position. Indeed no orchard or fruit garden is complete without crab tree, from which the careful housewife loaded down with its attractive fruit nothing makes her wor can be more ornamental. For the lawn or forms af deys been a popular fruit, not much double flowering variety is a very handsome attention has been paid in a general way to ornamental tree when in full flower, the blos$\left\lvert\, \begin{aligned} & \text { their cultivation, or a very keen interest }\end{aligned}\right.$ soms resembling miniature roses, very double,


Crab Apple Orchard Owned by Mr. A. E. Whitney, Franklin Grove, Illinois
Mr. G. Leslie, of Toronto, has tried all the $\mid$ taken by the public in learning the best varie- $\mid$ and of a bright rosy pink hue. Crab apples varieties, and claims to have originated the ties. Of late years, however, their cultivation $\begin{aligned} & \text { make capital cider, and for this purpooe who } \\ & \text { orchards are planted in the Eastern portion of }\end{aligned}$ best crab in the world. As Mr. Leslie's know- $\begin{aligned} & \text { has been of increasing importance. First, for } \\ & \text { the great hardiness of the tree ; it is planted in }\end{aligned}$
 able reputation stand as high as those of any $\begin{aligned} & \text { those portions of our cowing less hardy fruits. }\end{aligned}$ nurseryman in Canada, we have concluced this In such places the crab apple is put to all the introduce this crab among our prizes for this 1 In such places fruits are in the more favored year. We recommen and those who reside be- parts of the country. The increasing demand plant one somewhere, and those who reside be- ${ }^{\text {parts }}$ par ond the safe limi fer trees of this superior growing the fruit has led attention to raising by all means crab is better than a bad new varietief. We have now olfered by apple, and will grow where apples will not. $\begin{aligned} & \text { nurserymen for sale, with glowing descriptions } \\ & \text { of each, over thirty different varieties. They }\end{aligned}$ There has been a great loss sustained by farm- of each, over thirty different varieties. ers by unprincipled agents selling unsuitable all have certaine is the Transcendent. This apple trees in our northern latitudes,
vendors well knew that they would not stand the severity of the climate. Trees that have is remarkabe, a most interesting and valuable been procurable in the nursery rows at from variety is Leslie's Sweet Crab. It was raised 3c. to 5 c . each, have been sold by the travellers

variem sed by Messrs. Leslie \& Son, and possess| t | 75 c . to $\$ 1$ each. Some of our subsaribers in from seed by Messrs. Leslie \& Son, and possess-- for too great g Tength of time |
| :--- | :--- |

## The Dairg

## Does Winter Dairying Pay:

There are some new enterprises of doubtful
suceess, in which farmers should be cautious success, in which farmers should be cautious
before risking capital in them. This, however, before risking capital in them. This, however,
does not apply to winter dairying; for every does not apply to winter dairying; for
farmer can make calculations sufficiently close to establish its advantages and disadvantage over summer dairying. For the present
shall confine our observations to the conditions of the average farmer in sections where there are no creameries.
Summer dairying took its origin under conditions very different from those of to day Under straw-stack accommodation and manage ment dairying was perfect in its day, when superior facilities were inaccessible.
The average farmer has now good stable ac commodation-for his cows, at least : and the question is, Does he take the best advantage of it? He has also noved sor out of the lor a aw not vielding milk should not contain less nutriment, or be of less value, than hay of average quality-that is, a cost of about 12 cents a day. We do not defend this, however for experience has proved that the best and cheapest way to produce a good calf, and a large yield of milk in summer, is to feed liker ally in winter. Now, a high feeding ration for a cow in milk would be composed of foods cost ing 20 cents a day in winter, or 8 cents more than the maintenance ration. Taking th basis that the cow is stalled for 200 days and pastured the remaining 165 days of the jear, what do these figures show? $200 \times 12=\$ 24$, being system; and $200 \times 20-540$, the under winter dairying, showing an apparent loss balance of $\$ 16$. But there is a small offset against this amount. Taking the average rent in the cleared districts of this Province to be $\$ 3$ an acre, and the average pasturage per cow to be three acres, we get $3 \times 3=\$ 9$ as the cost of summer keep under the summer dairying ar rangement ; but the farmer who believes in low feeding in winter because the cow is not giving milk, surely would take steps toward economiz ing pasture in summer for the same reason. In this particular we merely wish him to chang his mode, not his in 10 per cent. his winter ration on account of the cow being dry; now, for the same reason, let him save the same per cent of pasture, which will reduce the $\$ 9$ pasture bill to $\$ 0.40$, leaving an apparent loss of $\$ 12.40$ on the whole year's feeding. This is all the loss which could be incurred under a change to winter dairying if there is any difference in labor and manage ment it will favor the winter system,
In presenting the credit side of the account, let us first endeavor to select such items as will cancel the debit of s12.40. With regard to the winter yibe ouch depends upon circume of summer, so murate conclusion can be ar rived at. Grass and other succulent foods ar udapted for cuuantity, and solid foods. such as grains, for quality, and as succulent as well as solid foods can be fed in winter, the ration can be regulated for either quantity or quality of
milk. Even with very grod winter पuarter and the best attention, especially if the cow gets ice-cold water, she whl on during hities are that this loss will not be neer so great as during the sweltering days of sum mer, and then the cold spells never last so long as the hot, droughty days. The temperature nd food, and hence the flow of milk, can be more easily controlled in winter. However let us suppose that the daily average under both systems is the same in quantity; as to the duration of the season we shall speak hereafter.
In reference to the quality of milk the case is different. The gain in this respect resolve itself into two factors, viz., (1) the greater per entage of butter fats in the mik, and (2) the greater q in winter than in when ice is used Taking as a beis the likely upposition that the same percentage of cream can be raised in winter as in summer with the use of ice, we have accurately conducted experiments to guide us. The percentage of butter from the milk in winter will be about 3.6 per cent., against 3.2 in summer, and this will make a difference of about 15 lbs . of but ter per cow in favor of a winter dairying sea son. Add to this the extra quantity of butter ats obtained owing to the use of concentrated oods, and nobody will deny that the sum will ancel the $\$ 12.40$ of supposed deficit; indeed, we might justly be accused of being much Whatever additional advantages we can now prove will be a clear gain. The duration of winter dairying The cow dries off rapidly in the fall when the cold season is coming on being subjected to sudden variations of temperatures and changes from succulent to dry foods ; whereas under winter dairying the close of the season is in June, and possibly part of July, when grass is abundant and the temper ature agreeable. At this time she can best support her young and produce a good flow of milk. An average of 4,500 lbs. of milk per season is a fair estimate under summer dairy ng, and the average price of butter 15 cents Therefore $4,500 \times 15 \times 3.2-821.60$, being the price receved her seas outter, a fair winter system would be about $4,500 \mathrm{lbs}$ and the price of butter at least 13 cents higher, so that $4,800 \times 28 \times 3.2=\$ 37.40$, or a cash balance of $37.40-21.60-\$ 15.80$ per cow in favor of winter dairying. But this is not yet all. The farmer can now indulge his low feeding theory for dry cows to his heart's content; for this happens just in the season when the giass is scanty, and when there is escape from the anger of producing lad milk and bad butter by means of filthy water drunk by the cow. In winter the water is in its greatest purity; hence labor during the very busiest months and wh hired help in so expensive, is immense. The average farmor usually engages a mar the pring and summer months only, and this some the costs a out as much as an engagement by virtually thrown in, especially when it is considered that more reliable help oan be obtained
onthly employment then by monthly engagements. If good calves are to and cheaply done in fall and conveniently ummer. Get the calves well tided than in Grst winter, and afterwards they will ber the take care of themselves. Another important advantage of liberal feeding in winter is the in. creased value of the manure, which will repay all the labor spent in saving it, whereby an mpoverished soil may soon be restored to fertility.
We
We are convinced that if the farmer once changed his system he would also soon change deas and feed liberally and regularly all the ear round. From the present system (if it is orthy of being called that name) there are hree changes that should be discussed by the rmer, vi., (1) winter dairying, (2) summer (3) winter and sour daring, and fation of both the other sys. With the resent difference of prices in winter ard sum. mer, there can be no question as to the superion advantages of winter dairying ; and there will be no use in discussing the merits of the other systems until these prices become equalized.

Poison in Milk and Cheese
statements having been made public to the ffect that numerous cases of poisoning from heese have happened in Michigan, have led to a horough ventilation of the question by Prof. arnold in the New York Tribune. Several amples have been sent to him for examination. xperts have found such cheese to be characterized by intense acidity. In all the cases hat came to the notice of Prof. Arnold, he our whey the cheese had been made from ersally prevailed before the introduction of he sweet curd system, of which he bears the onor and credit of originating. From these and other facts it is highly probable, if not conclusive, that the poison is due to some fer ment in the food or drink of the cows. This poisonous ferment, he further observes, developes with the process of curing, until the cheese is from one to three months old, according as the curing is fast or slow, and then gradually diminishes until it becomes perfectly armless. On cutting the cheese and exposing the the air, a peculiar odor is enled, is allowed to rain in the sour whey, the strong acid favors this poisonous ferment, and weakend the effect of the rennet.
In answer to an objection as to the possibility of poison getting into the milk, Prof. Arnold writes to the same journal as follows:
' The statement published last mon th, that two little children in Connecticut nearly died hrough drinking the milk of a cow that had een poisoned with Paris green, has been quesioned as a supposed impossibility. The objector cannot see how the poison could get into the mik, nor how a cow could give milk after being facts of $f$ rechere il llary tions. Any substance poison, medicinal, or otherwise, that can be taken into the blood, will at once begin to appear in the milk and become more and more intense as long as there is a supply in the blood from which to derive
an accumulation. The presence of poison in the system temds rapidly- 60 diminich the see aretion of milk, but not so rapidly as to preven In the poison from being mingled with it. In cases of moderate poisoning the mammary glands, when the animal is giving milk, are the most efficient means of elishing the poison from the systen, an it becomes so -especially children-using it poison persow herself shows little or no indi ation of its influence. Numerous instances have occurred where cows from eating cicuta, wild carrot, lobelia, and even rotten potatoes, have taken in poison enough to cause their milk to terribly sicken and distress those who used it, though the cows themselves showed no other effects than a falling off in the quantity of milk. A moderate poisoning with Paris green, could hardly fail to operate in the same way.

## Great Native Milking Cows.

isiting Kentucky in the winter of 1842, found native cows, fed only on hay : nd corn fodder, giving 20 to 26 quarts of milk per day for three months in succession. If the breed ing of such cows had been continued with view of still further increasing their yields milk, there is no question in my mind that long ere this, they would have produced messes equal to the largest by imported Holstein ohi and other States were bred equal to those of Kentucky. I think it a great loss to our country that these were not kept up as a specia breed, and a herd book establish record. In that case, we should now posse
 saved abrod to import them by the thou sand from Holland to fill the large demand re cently sprung up among us for superior dairy cows. A further advantage in these would be when dried off they would fatten rapidly, and make an excellent quality of beef.-[A. B. Allan, in Nat. Live Stock Journal.

Jerseys vs. Alderneys.
This is the difference between Jersey and Al derney cows: 'Theformer has beenkept pure bre on the Channel Island of that name for a long time; no foreign catlie have been por hundre be imported into Jersey for over a hotaion years. In the Island of Alderney imited. The Aldereys but been kept pure, but are Alderneys have not been kept pure, bus and the Guernseys on their original stock. They are not so fine as either of these two latter breeds have now become, and are more uneven in their make-up. The term Alderney was applied by mistake by the English to Jersey cows when they, first began to import them many years ago, but it is not used now, each breed being distinctly classed by itself.-[A. B. Allen, in N. Y. Tribune.

Pleuro-pneumonia has broken out amongst a herd of 250 Jerseys, in Cynthiana, Ky., but theritle as possible about it, with a view, doubt, of oreating the impression that the disease is dying out in the West.

## (6) Gisarm

## Straw as Food for Stock

 In our article on manure we pointed out that straw, being a poor absorbent, was ill adapted for litter. The farmer will now want to know its xact worth as food for stock. The market price of straw must be set down as nothing. Farmers who sell it on the city markets at two or three dollars a load and stand most of the ay before they can effect a sale, lose heavily by the transaction.Let us reason from a hay ration standard. steer weighing 1200 pounds will require about twenty-five pounds of dry matter per day to keep him in a good thrifty condition. This may be represented by thirty pounds of imothy, which contains the right proportion of ent f a doily ration would therefore be fiftee cost of
cents.
now compare this with a straw ration. The objection to feeding straw alone is that it contains too great a proportion of fat and hea roducing material, so that the animal has to at enormous quantities before it gets sufficien nutriment to repair the waste of or increase the other tissues of the body. It will thus be seen that it will require the addition of some ther food rich in liesh-forming cont raise the straw up to lhe the use of the an best be acco food that can be purchased nost the markets, viz, linseed cake or linseed Teal There are, however, a few other foods rather more concentrated, but they are not so eadily procurable. A daily ration of fifteen pounds of wheat straw, ten pounds of oat straw, and five pounds of oil cake, has almost the exact nutritive equivalent of the hay ration, Calculating the straw at nothing and oil cak at the average price of $\$ 0 \mathrm{a}$ ton, or and half cents a pound, we get seven-on-that is ents as the costorice of the hay ration. In exactly half the price of the straw is raised to 6.00 per ton. In this computation pure straw is ta value, and if the quantity of straw mentioned is made up of one-fourth chaff, the ration will then be as good as the best mixture of timothy and clover. These figures, combined with the experience of feeding cattle on straw alon lead to the conclusion that straw is the cheap est ration when fed with concentrated and the dearest when fed cle, in the latter mer case animals can put on wh, reduces the case they lose in condition, which
value of straw butection may be taken that the But the objection may be take. To this it straw an mered that the manurial value of a ton of straw is about the same after it passes through the animal system as before, if we take into consideration the more direct availability of the dung as plant food and the injurious effect which straw has on the mechanical condtion of soils that are not stiff.
There is another important consideration. While straw is a far better absurbent for litter when cut than when with concentrated foods.
have it cut when fed

If ground grains are fed instead of oil cake, the meal and straw shonid be well mixed in the manger and moistened with water, so that when the mess gets into the stomach it will be in a condition to induce free circul cong tric juice, and there will be no danger
mass forming into an impenetrable bell.
Any grain, with the exception of corn, can be formed intoa feeding ration with straw, but each would require a separate calculation be fore the proper proportions and costs of the
different rations could be ascertained. Some aifferent rations could be ascertained. Soro
animals would require a frequent change from a straw and oil cake ration.

## Cost of Meat and Milk

Dr. J. B. Lawes has been figuring upon the comparative cost of making meat and milk, paricularly the draft each makes upon the soil a pasture, and gives the results of his calcu-
and Journal" as follows :-
"I have a dairy of about 30 cows. For the last two months each cow has consumed daily little over 100 tts . of food, consisting of cake, bran, hay, and straw-chaff, and mangels.). The dry weight of this food is 28 lbs ., while the average daily product of milk is a little over 2 bs. ; but if we call it 28 lbs. it will very much acilitate our calculation, as we shall thus hav lb . of dry food producing 1 lb . of milk.
Milk contains about 13 per cent. of dry sub tance; 1,000 lbs. of dry milk. If I had fed produce with the same food, I should have ex pected about 85 lbs . of increase in live weight, containing 63 lbs of dry matter. The 130 lbs . of dry milk will contain about 7 lbs. of nitro gen ; the 63 lbs . of dry animal will contain hardly 1 per cent. The $1,000 \mathrm{lbs}$. of dry food will contain about 20 lbs. of nitrogen, therefor the milk will abstract 7 lbs , or about 35 pe cent, while the meat will take only $b$ per cent "In dealing with these the loss of manure be the flly up the whole of the food equally If I were merely estimating the meat or milk produced by the foods, such a proceedin would be evidently unfair ; or if I were est mating the separate manure value of the differ ent foods, a different course would have to bo pursued ; but here we have to deal with a cer tain number of ingredients contained in mixed diet-part home-grown, part purchased -and it is required to know what and as compred with the amount abstracted by

$$
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& \text { fas compareu ox. } \\
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Cinsed cate manure value of one to of linseed cake to be 60 s. before feeding, in 38s. if fed by dairy cows; these figures repre senting the value of ingredients removed in the milk and meat, though making no allowance for the waste or loss of manure.
"If, instead of charging the loss of the manure upon the whole of cake alone, it will require charge it upon the cake are, all the nitrogen in contained in two gallons furnish the quan these circumstances, a cow of milk. Under these cwt. of linseed cake per week, and yielding 14 gallons of milk, would reduce the manure value of a ton of linseed

THE FARMER'S ADVOCATE.
cake to a very few-phillings It is quite evident, therefore, that the popular idea of dairy farming is fully borne out by the figures given, and unless the loss is compensated by imports in the form of foods or manures, pasture land will soon deteriorate."

PRIZE ESSAY.

## Women as Farmers.

by mrs. robert warwick, wingham, ont. In every sphere of life how powerful is the influence and example of woman! But nowhere is her influence so widely felt as in farm life, so neath her hands ; and she who avoids the duties and responsibilities incumbent upon her, is lacking in energy and sympathy, which detract from her true womanliness.
Many of us can look back to the days of pioneer life, when we went forth young and hopeful to make a home in the wilderness where the mighty giants locked arms over our close are cabins-days of unremitting toil and pinching self-denial-days when we learned to the full that "the destruction of the poor is hispoverty,"-days of weakness and weariness, when children were arriving in the home nest to be lovingly cared for as best we could care for them. But we struggled on bravely to keep a roof over our heads, and that canker, a mort gage, of the farm. We saw many around us called to lay dirn 'the inabitants whereof shall not became discouraged, sold their farms and went off to new fields of labor. Years steal on im perceptibly ; it seems to us but a little while. We awaken as from a dream as the rail cars go thundering past. The face of the country is changed; level fields stretch on either side ; orchards wave; towns have sprung up; the wilderness has blossomed as the rose. We are yet perbaps in the prime of life. Children are growing around us blessed with vigor of mind
and body. Will they be worthy successors to and boir. Warents? Training them to habits of industry and perseverance and self-reliance is the first step, and surely woman's influence will be felt here. The mother is the pulse, the very core of home life.
"Where's mother?" asks the school boy, as he comes in, satchel in hand, and straightway marches all over the house to find her "Where's your mother?" asks the tired father, 'and all seem happy in her presence. We have no sympalis whe Rights movemen. respect of her husband and children, and she can best secure that love and respect by taking a real in:erest in all that concerns their welfare, and by endeavoring to train up her children to do their duty well in that sphere of life in which it has pleased God to place them. The mother who confines her self exclusively to dome tic affairs indoors, un able to tell a passing caller on what part of the farm her husband is engaged, or what work going forward, may be an excellentho will fail in bringing out the best possibilities of her child-
cos's nature, or in making them farmers at heart. With all our labor saving machinery, there is still work for all. Nowhere is co-opera Avoid as far as possible that drain on a farm, hired help. Let "together" be the motto, and a family so united will prosper in their undertakings and preserve friendly relations in after life. In times of hurry our girls will willingly assist at any work suited to their strength. The lighi $\begin{aligned} & \text { breezes }\end{aligned}$ breezes will not bure then, an womanly not forfeit any rea.
character by so doing.
character by so doing.
The thrifty days of our grandmothers are not past. I know a family of farmers daugh
ters who can harness their horses, and while one drives the reaper, others bind up the grain, draw it in, etc., attend the pigs, calves, bees, vegetable garden, spin and manufacture the wool, etc., and these girls are no ignorant rustics either. They are high school graduates, have their or gan, and a home supplied with all the comforts and many of the luxuries of life, all chiefly owing to the example of a thrifty, intelligent mother, who is a farmer at heart, and taught them to be a credit to their up ringing.
These are not exceptions. 1 know many well read, refined girls of the same stamp, and see. With what a zest will the yo ng people ttend to the lesser details of the farm work if mother goes out, as she finds opportunity, and gives her companionship and advice, tend ing the vegetables and strawberries, marking off a drill of this or that new variety of potatoes, and keeping them separate for seed. "In al labor there is profit," and honest satisfactio as well. That flock of ducks and geese re presents so many additions to billowy feathe eds and pillows, plenishing for futur omes. That fock of chly whan dillars (I- previs the winter outfit Plan how you should spend every dollar of your mutual earnings; explain your circumstances to them, why this or that coveted article must be done without a little longer-and poor must be the child's moral nature if he does not well re pay your confidence. Your own burdens wil become lighter when you see how buoyantly they will help you to bear them. We have seen parents snatched away from their children, leaving them in total ignorance of the state heir afais, How humiliating! Let the mother, for she has the best opportunity, study the tastes of each child. Some boys are born "cranks" after machinery, carpenters' tools, etc. Do not stand in the way of such. Let each choose his own profession, but it is foolishness for others to dawdle away from the farm, to become teachers, agents, etc., having no natural aptitude for such callings, but merely with the hope of gaining a more genteel livelihood. We have seen such, after having sig. to the farm, perhaps bringing with them helpmates as inefficient and genteel as themselves.
I do not fancy the much vaunted plan (I
speak from observation) of giving this child a
colt and the other a sheep ; it leads to emula tion, jealousy, and a better feeding and tending of that which is their own, to the neglect of something else, and as the stock increases the dilemma becomes greater. Let res interest
the family be one, leaving the rest to the discrimination and generosity of the parents. Let us be as generous with our children as we consistently can be; avoid all niggardliness. With schools within the reach of all, none need grow up in ignorance. Let us educate them as well as our means will permit, and provide good sound reading matter. Let agricultural papers be found on our tables. If our home is ever so humble, let us beautify its surroundings, plant rees, cultivate flowers, encourage singing and reading aloud. This teads to all our labor on and to all but to make home life happier and better by trying to have things done in season? By making the most of our resources, and using a little of what the Americans call "faculty," we need never allow our work to degenerate into drudgery. In these days of cheap excursions, picnics, celebrations, etc., there is no fear that young people will suffer from an occasional outing. Indeed I am oldashioned enough to think that they have abundance of such "sugar plums," and like our public school system, the inens satisfactory Hood, but the resis on the farm a tendency thar from it. The care and attention bestowed on our '"dumb friends,' has a tendency to enlarge our sympathies and quicken our observation. There can be no monotony in our labor; everything around us is daily teaching us some useful lesson of patience and trust. Let us be proud of our profession, ready formard any useful project-not necessarily following every
old beaten rut. A healthy dissatisfaction lies at the root of all prog'ess.
Farmers regard it as a misfortune when the products of their industry are selling at low figures. So it usually is, and will always conducted so abnormally as it has hitherto been. Farmers are not the only people who complain of low prices. Workingmen grumble at the low price of labor; business men at the depressed state of their wares, and officials at the meagreness of their salaries. Cheap farm products mean cheap everything, and a man's profits may remain the same if the prices of his purchases and sales increase or diminish in the same proportion. It is the margin that makes the money, not the high or une and crashes is the goods. Ths have been manufactured or purchased in booming times and sold in times when peeple have recovered their senses-the former being the time of high hope, the latter the time of depressed spirits, and these periods occur almost as regularly as the revolutions of the spheres. High prices all round are of no more benefit to the individual or to the community, than giving each competitor in a race
a start of five yards. The time of general prosperity and contentment to all parties is when
the articles which enter into the production of the articles which enter into the production
the commodity is cheap, when the commodity itself is cheap. whem its means of distribution
are cheap, and the margins are sufficiently wide are cheap, and the margins are suffi
to insure confidence and stability.

What a Farmer's Club Did.
Stock.
In the city of Rochester, N. Y., there is a strong organizationces its interests, and consequently, as it thinks, also those of the city, by bringing pressure on the city conncil to induce it to pass ordinances regulating the sale of products by farmers on the market. The Association drew up an ordinance to the effect lhat each farmer or gardener who city should pay a lice double team, and single team, and $\$ 100$ for a double team, and corresponding amos, and a penalty of $\$ 25$ for other cone of the ordinance, or 25 days penitertiary was to be inflicted on the offender.
Before the draft of the ordinance reached the city council, in which body it would probably have passed, it came under the notice of the Western New York Farmer's Club at one of their regular meetings. The Club forthwith passed a resolution to be presented to the council requesting that body to vote
draft ordinance presented by the draft ordinance presented by the Grocers' Association, and to rebuke the parties who attempted to deprive the producers of their right to sell their products wherever they pleased. It was stated a in brockport, lut the bypassed in Brockport, was bold enough to prosecute the violaters. Another striking fact was brought to light with refer ence to the license fees which the milkmen had to pay; it was stated that this license cost the inhabitants of Rochester $\$ 30,000$ a year, as the milkmen had advance the price of milk a cent quart in order to cover the fees imposed on them. order to protect the milk dealers.
Let farmers organize in every locality until Le very name of Farmers' Club strikes terror into the conscience of rascals and drives them into unorganized communities.

Top dressing wheat mav be continued after the wheat is sown and the plants appear above the surface. Wagons with wide tires should the surface. deep ruts. The finer the manure is made the more evenly it can be distributed, aside from the fact that fine manus trated than that which has not decomposed.

On some farms it is difficult to say which ha the greatest influence in diminishing the flow of milk, the fies in summer or the rough conduct of the cow's attendant in winter. In both cases the cow becomes fretful, and, being in haste to get rid of her This is a double source to let down her milk. This is a double so gets of loss to the owergly the cow and her off${ }_{\text {less milk, and second }}$ spring are injured in their milking and thriving qualities. Any cow may be improved by ing qualities. Any cow may ce be spoiled by disagreeablness or cruelty. In our last issue we gave the standard point 's rtline block, showing the butcher's cuts, with names nd average prices for several years subjoined Although the block is the crucial test upon

model stere, showing butcher's cuts.
W:th regard to the quality of the flesh the feeder requires as keen a perception as the butcher. Naturally, the butcher always understands his market, but the feeder far too
frequently neglects to ascertain the tastes and frequently neglects whereabouts of his consumers. Breed has a whereaboul to do with quality, as well as the other indications which we have already pointed out, and where the tastes of the people are delicate and critical, a special branch of the breeding and feeding art should be studied by aspirants to eminence and success. In iffer particular the stuay
from that of butter and cheese making. In from that of bater anality is a word which is scarcely ever mentioned.
There is one important point which cannot be overlooked by elter waste. If the store animal is long-legged and coarse boned, the probabilities are that its market value will be depreciated on account of the larger percentage of offal. But here there are two points for conser irrespec Some cuts will bring the highest prices irrespec or example, in a prime steer the most valu ble cuts are seldom so leficient in develop abe cus to materially affect the price; while
ment ap
other parts, such as the brisket, may in some averaye prices a.
averaged $\$ 500$. the butcher wants great expansion of ribs and an enormous development of thes qualities the main factors of his protu, but with the highest

## History of the Thorough-

 bred Horse.The American thoroughbred of the English race horse. When a horseman speaks of a thoroughbred he means just this and nothing more, viz, that the horse's pedigree runs without variation, direct to the noted
horses of the English turf. The horses of the English turf. The
original thoroughbred is from Oriental parentage introduced to theisland long before the Christian era. Herbert thought them of Thracian or Thessalic descent, improved by a later descent He also believed that during the reign of Alfred the blood of German was mingled with that of the Oriental, England. Still later a few Spanish horsees uring the Protectorate Cromwell forbid racing, hough an ardent admirer of the horse, and wnough of the celebrated White Turk. Another owner of the celebal was Helmsby Turk, owned by the Duke of Buckingham. A third was Mor oco Barb. To these three horses Herbert trace the blood of the old English race horse These facts are quoted of England and America the thoroughbred horse bloods, but for centurie came of a mas been mingled with them. no new tr have been made to intermix new Arabian strains, but no good has resulted, and the descendants of the old stock stand as the "Thoroughbreds" of to-day. Thoroughbred have been crossed upon other horses to the in provement of their progény in apeed and en durance-the staying qualities that render
horses valuable, and endear them to man.horses valuable, and end
[Prairie Farmer, Chicago.
At recent public sales of Shorthorn cows and位位s held in different part of the U. S., the
markets be regarded as little better than waste when badly developed; otherwise it usually rings the price maned in the list below ot that the feeder cannot be arbitrarily gov erned by the highest priced bits.
The breeder is controlled by the word seer, such as is outlined by the accompanying cut, he must select such breeding animals a come, as near as can be procurable, up to this standard, especially rejecting such sires and dams as possens the same weak points.

 | $\begin{aligned} & \substack{16-\text {-Hook } \\ 18 \text {-Hind Shaniz................ }} \\ & \text { History of the Thor }\end{aligned}$ "
 How the Butcher Judges Steers hich all judging converges, yet the vocal disof the feeder and the butcher are quats points, but if the feeder also incorporates the butcher's standards into his judging, he displays a complete knowledge of his art. For example, the reeder looks for disposition and consititution as the chief indications of a good thriver, while

History of the Thse $x:=x$



$\qquad$




A General Purpose Horse. The existing demand, or rather sensation, for heavy draught horses must end somewhere. We must soon open our eyes to the fact that we are going to an extreme which we should be
prepared to counteract. We are breeding too much bone, slothfulness and fat, and too lit tle muscle and courage. Size does not alway give weight, nor is it necessarily the embodiment of strength. A large bone may be porou and destitnte of strength, and a fleshy horse is more an indication of sluggishness than of spirit. To come down to the point of real practical usefulness. the horse that can produce the most labor on the least food is the most profit is like a piece of machinery; the power by the is ike a piece of macincy, size heing merely side issue. These are the points to which economical horse breeding and feeding must finally converge.
The growing demand for mules and fast walk ing horses is the straw which tells which way the wind blows. It simply means the lack stamina and speed in our working horses. This is verv easily accounted for. Our highly hrer draught horses have been nursed too tenderiv on account of the rast amount of capital sunk in them. and have consequentlv hecome weakener in spirit, constitution, and endurance, and heing put to spiritless mares, the offspring is of
such a character as would lead to cries for the mule and the racer. Times, even on the fur are getting faster and faster, and farmers need more "go." the average farmer to the special facilities which he possesses for raising the class of horse in demand Many farmers labor under the im pression that the rearing of horses for the various markets of the world should he undertake only by special breeders Specialists can only successfully operate under boom prices and when stamina is at a discount in the market. Both stallions and mares require the wholesome exercise of the varied emplnyments on the farm To the farmer this is a double source of profit as it gives endurance to the animal and its labor brings in direct pecuniary returns. Neither of these advantages are attainable by the specialist. The demand mentioned has its origin in the States, so that the next question for us to consider is, Can we compete with our neighbors in the production of horses of the mule-racer combination? We possess one advantage which will drive them out of competition with us. In the Union, where corn is the staple food for gist inses of domestic animals, the farmers perthat this product is detrimental to muscular development. Corn is a fat and heat produc ing food, having a deficiency of minerals, and this heat does not infuse that warmth and rapid flow of blood which is so highly necessary for activity; in fact it is fatal to this effect. Feerling is one of the most essential factors in the proluction of the desired qualities, and our grain productions being of a varied character, our farmers could scarcely make a mistake farmer is not to the bnsiness; if he places two horses on the market every year he dues well. He is not
circumstanced to go into the breeding of racers, and he should be the last man to establish a race ceurse. Constitution, constant work, and appropriate diet are the producers of
warm blood, which gives spirit and vitality for the suppport of muscular action and development. A horse built on these principles is the general purpose horse for the farm, and is the most profitable and satisfactory for all consum ers of horse power. He will possess strength, endurance, and action, and will keep mettled or andy four
try a dip of thorocehbred bloon
Thy a dip of thorocehbred blood. these ends, but into our larger Clydesdale, Per cheron, or Shire grade mares, how would it do to infuse a dip of thoroughbred blood? The famous a cuelish horough 31 wh we resen inifince in thege siden vital Pueation. The most modern conception of a horse is that his feet are his base, and as the English thoroughbred possesves all the sound ness and qualities of foot which have been so glowinglv ancredited to the Shire, and stands hetween 15 and 17 hands high he may be said to have bnth the hands and the feet necessary huilt specially for to public favor. He was durance, and has also the following points to recommend him:-Chest deep and wide, being very superiorly marked, indicating a powerful light ; ears fine ; eyes nmminent; nostrils wide; lips thin and small:; wide hetween jaws ; neck ers very thin and high, back low at withers then straight to haunches; long from haunches to turn of rump: long and thin from turn of rump to tip of hock; great elasticity of motion, especially in forcing himself forward; buttock s well apart; legs, below hnck and knee, small, with prominent cords; tail fine-haired, hair sometimes wavy; hair on legs fine, no fetlock
tufts ; hooff small and cupped; color brown, bay or chestnut; hair on body thin and silky

Fecding Cattle.
It has been claimed that the methods of improved of late years that the period of ma turity has been hastened more than one half. That is, a sheep or a pig which matured at ears, or a steer which was ready for slaughter y years fo merly, isnow ready for the butcher less than half these ages. Pigs are said to mutton at 20 months, and a 2 year-old steer to be ready for the block at that age. It is to be be justly allowed. Naims are greater than can by excessive forcing are made as fat and reach as heavy a weight at these premature ages a others used to do in twice the time, but it is a question if this forcing is profitable either to the feeder or the consumer. On the one hand, the animal is forced to consume as much food in two years as was formerly spread over four in time while on the whole there is no gain but has very immature other hand the consumer devoid of flacure or half-grown meat, which is meat is overloaded with fat, which is a waste.

Physiologically, it is a matter of doubt if the muscular growth of an animal can really be hastened by any process of feeding. Fat can e produced, no toubt, but fat is a diseased condition of the system, and an excessively fat nimal would soon die under sontinued feeding. But if we examine the meat of one of these young overgrown animals, it is found to be in very great disproportion to the fat. It is quite common, for instance, for the 9 -months old pigs Which weigh 300 pounds to be turned wholly flesh under the fat is not saleable or useful of food On the whole it certainly doseful as es if we had carried the forcing system of feeding to an unprofitable extreme, Every year the losses of swine by disorders clearly traceable to over-feeding increase in number, and although we are told that the dreaded diseases have been overcome and have disappeared, yet the feeding season no sooner begins again than the hog cholera breaks out as plentiul as at any time before. It is a question if we can safely follow English precedents in this respect of forcing animals to prematurity. Certainly if we are to suffer the pains and penalties, the diseases and losses among our live tock which Enclish farmers are comnlaining
of, it is verv clear that we cannot afford to do i: and had better make haste more slowly. [ N . Y. Times.
The Liverpool Journal of
The Liverpool Journal of Commerce draws vent the introduction of disesessary to preherds and flocks from the United States, and points out the incompetency of biased officials in the regulation of the traffic. It cites a case in which one meat inspector seized the carcass of a bullock from the steamer Norseman, and would have passed it as sound had he kept within his functions of judging by appearance, but asserted that the animal had suffered from Texas fever. This evidence was elicited before the magisfrate at Birkenhead, and when the witness was cross-examined he confessed his from the visera thereby petence for the position he occupies. The Journal then concludes as follows:-"Mr. Moore, the Privy Council inspector at this port, to whom the seizure of the meat in question is attributed, was nearly destroying the cattle trade from the Dominion of Canada in August ast, when he detained several cargoes of Cana. lian cattle. The High Commissioner for the Dominion of Canada and the trade, however, were represented, and the leading veterinary athorities from all parts of the kingdom were alled in, when Mr. Moore had to It that rather urious to remark that while the cattle trade interests of the Dominion of Canada were so well taken care of, the United States have not
thought fit to be represented in cases such as thought fit to be
that of yesterday

Sir Richard Temple, one of the hundred scientists who made a tour of inspection through the Canadian Northwest, in his recent lecture elivered in Winnipeg, exclaims with reference or cattle disease in the United States: "For Heaven's sake take precautions to prevent its
mportation. I speak freely on the subject mportation. I speak freely on the subject,
hecause we in England failed to prevent the importation of diseased cattle, and the losse importation of diseased cattle, and t.
in conserfuence have been incalculable.

## D3eterinary. <br> Luxations

## Accidents <br> fractures.

There are no accidents to which the domestic animal is more liable than fractures. As these cases demand prompt action on the part of the farmer, before a veterinary surgeon can he with which the farmer should be more fami liar.
Fractures are classified (1) according to the direction in which the hone is broken, and (2) according to the severity of the injury and it relation to the soft structures. When the bons is broken without injury to these structuren the fracture is said to be simple ; comprund, when an open wound communicates with th fractured bone, com fred. When the broken into several fraquer coler when the ads whe the rese juren. sin the tises seriouly contrsed The first thing to be done is to ascertain whim one or more nf the fnregning ennditions exists. one or the treatment mupt he regulated acenord ingly. This is most easily determined 'y th extent of the lameness, the suddenneas with which it is manifester, the magnitude of the deformity, and the nature of the unnatural movements of the part. In some cares. especi ally when the limb is hutslightly splinteres or fractured longitudinally, there is hut little manifestation of lameness, but such injuries require close inspection and tre sur ening is likely to set in.
Shortlv after the accident, a transparen arider a time this matter be. fractured bone. After a time it is then called a callons. This is the renarative material which brings about the uninn of the bonef, causing the fracture to be healed. The hreach thus repaired is broughtabontin one of two methods: (1) The callous may ensheath the ends of the hones. as when a broken rod is mended by means of a ring surrounding the detached ends; and (2) the reparative matter gathers on the enis the bones glueing them together. The ensheath ing method is the more commnn. Arer a the time varying according to circumsthon there accumulated ape fracture mav into regular hose, aled. If the process of re er is arrested before ossification, or shanलe to bone, takes place, a false joint may b formed.
Very soon after the occurrence of the frac ture, irritation and swelling take place, so that it is of great consequence to perform rr duction at the very earliest moment, ese increasing irritation and swelling will imper the work of adjustment. A. brought into their natural position, put on splints and bandages ling. In compound frar the patient into a sling. In comperment are greatly increased. Violent inflammation and fever set in, terminating in suppuration (formation of pus), and gangrene. The liabil ity of this danger may be obviated by first treating the wound, thus converting a com pound fracture into a simple one.

Also called dislocations, are another result but do not occur so frequertly as fractures The most common form is luxation of the patella, a small bone situated at the anterior and lower part of the femur, or thigh bone. It is most apt to occur in young horses The patella always slips to the outside, the internal lateral ligament being partially or wholly runtured, messibly sometimes only relaxed, so that the dishocation may be complete or nartial. When nartial the natela slips int and ont with a clauking nise while pation walking. Whe the patient is unable to bend解 the condition is treated by using frccible extension, plaing a rope around the foot and fastening it around the neck, forcing the font to remain in a forward position for several hours. A high toed shoe shonid he put on, and a blister applied around the jnint.
Dislocation of the cervical vertebre (hone of the neck) may occur withnut fracture Placing the foot over the hater in the stah is a fruitful canse; alan throwing. In the for of accident the neck is bent latany, and hony pren for this conditions, and death usually follows, sometimes instantaneonsly
This condition is to be distinguished from wiating or wry neck, which may ocecur from various causes without dislncation. Anything cansing a loss of function of the musales of no side of the nerk, such as rheumatism, bres in the stahle. etc, mav bring it ahnut.
Rempdies. - Take a nieca of canvas and susnend it to the coiling with rapes in the form and a sling; place the horse ' hean then it un allow it to rest until he is ahe fomentations: without support. with the hands; then nse a ruh the liniment. A pitch plaster has also proved effective
also proved effective
Where the usefulness fractures and luxations here the useflness of the animal becomer must be had. If it is a working animal and not verv valuahle, it will not pav to ind "ly in enstlv treatment: : hut if it is still valinhic
for hree ding. a consaiderahlo outlay incurred in

The Jersey fever has sulsided in the Uniter States. At recent auntion sales Jersey cow sold at about the same price as ordinary "scrubs." This shock has had a very depres sing effect on Jorsey worshippers. It is secretly whispered in relative of the Shorthorn or the Shorthorn under another name, is next to be hoomed to the front; hut this nrofoun secret of course, speculators.
Live stock crazes, like caattle diseases, stil eep bursting out in one location after another Lord Witnn, the na herd of the late T. J. Car vears on, from the soll at public auction fon the sum of 3,800 guineas, or close $n \frac{1}{} 820,000$
If we were allowed to analyze this sum we If we were ald $\$ 8000$ were paid for the bull
should say that $\$ 7,800$ for the pedig,
craze-total, $\$ 20,000$.

## The ஓนiarg.

## Wintering.

As all our hees should by this time have sufficient sealed stores to carry them through till spring, and should be snugly cushioned down, we must decide how we shall winter hem, and at once make preparations for pack. ing, housing or cellaring, as the case may be. he beginner especially is perplexed by various methods advocated by his neighbors, and is at loss to know which to adopt; perhaps each of ful Doubtless they all embrace the same undamental principle, though apparently quite different. If we know the sound, scientifio and practically correct principle, and some of he simplest ways of carrying it out, we should eafily decide which of them is, for us, the most onvenient.
To winter successfully, bees require-lst sufficient stores; the right amount is 25 lbs . or ver. 2nd, to be kept dry; dry cold does no ill bees, but they will die if the moisture mong them hecomes frozen and remains somp hills hees, and hrings on diarrhea (nommonly alled "dysentery") just as it does with higher animals. It also sours the honey, which itsalf causes disease. It checks the natural animal heat If hees are dry thev can cluster closely and keep warm ; not so if damp. 3rd resh air ; this applies to all animals, and well understood. 4th. an even temperature If bees are warm they will it ind and when cold will contract it agan, and must be This requires the extra animal waste thus caused This is not only expensive, but is a fruitful sonrce of direase. as the bees after consuming such large quantities of honey are unable, on account of the cold, to fly and free their over-loaded howels, thus producing dysentery in perhaps five cases out of six. The motion causes the generation of more or less moisture, which may be condensed before it has time to escape and freeze ahont them. 5th, warmth. This sous to the then bees do not need to eat to keep without it. If If they are surid maronding them they have the require can move freely from comb to comb for food, and be in no danger of starving ; while if cold, may be contined upon a set of combs for some timeafter the honey they contained is used. If warm enongh they will commence hreeding early, and the brood will not be chilled ; the collony will be strong at honey flow. On the other hand, if too warm they wilf consume be nuch honey, tly before, they shond too fast, lost; and whin breed will be chilled in the spring. The proper temperature for the sur rounding air is $40^{\circ}$ to $45^{\circ}$ Fahrenheit. All these requirements may be fully met by acting upon the following principle, viz.: raw off superfluous moisture; ventilate; kee the proper temperature.
The more nearly this principle can be carricil ut the better will be our success. I give the four most approved ways, and prefer ine, in th ellar, in the packed clamp, in the packed cellar,
hive.

The Bee Housz. - As those who have a bee The bre housk.-As late to build one for this winter, I will not describe it now.
The Cellar.-This must be dry, and should be so arranged as to be easily ventilated, and so that the temperature may be kept about $40^{\circ}$ the middle of April. The bees should be kept on their summer stands cushioned down, and have a small entrance to their hive till they have clustered for winter and all chance of very warm weather is over. Choose a sunshiny day to "carry in." Mark each hive to match its own stand so that it may be put into its own place when brought out again, renthe the cover and replace the cashill allow of the factory coll the the and quilt have two or three corn cobs or ieces of stick to form passages for the bees ver the combs. Open the entrance wide, or if the bottom board is loose, remove it (this is much the better plan) for ventilation. Place the hive upon racks made of two $2 \times 4$ scantlings set across the cellar a foot above the floor, and so spaced that one will come near the front and the other near the back of the hive. If other racks are required let them be sufficiently high to allow a hive to be conveniently placed upon the one below. Space the hives upon the rachs so that one may be removed witure of your cel thers. Regulate the tem hr carefully
The Clamp.-This is merely a long box with slanting top to shed the rain. It may be made any length to suit convenience, and should be large enough to allow a space of end the
 of hives who inches ; above the space should eight inches at its shallowest point. The ives should all face the same way; I prefer the south. A covered passage from the hive entrance to the outside of the clamp should be constructed, half an inch high by the width of the entrance itself. A board should be arranged to break the wind and prevent the sun shining full upon the opening
To clamp the bees, commence at once, and move them a little each day towards where they are to be wintered; when in position leave them undisturbed two or three days, so hat they may mark their position well. Then put them into the box and pack all but the pace above with straw chaff or sawdust (sawlust is best if it can be obtained cheaply, but must be dry). Remove upper and hall stories and cover, leaving any After the bees have cored for winter, carefully remove cushion, and arrange the frames so that the cluster is all tone side, or front end, of the hive. Place corncobs or sticks across the frames, then a light factory cotton quilt, and then fill up with dry straw to absorb the moisture. Leave entrance full width for ventilation.
The Packed Hive.-In this arrange the cluster as in the clamp, and use the passages ver the frames. Use cushion instead of quilt wind.

## Corresponderce.

Nortios ro Corezespornown
 gaurantee of good faith and to enable us to answer b. mail when, for ann reason, that courras seems desirable
It It an angwer is gppecially requected by mail, a stamp mu be answered through the ADvocarth, as our space is ver limitod. 8. Do not expeot anonymour communieation
to bo notiod. 4. Matter tor publication should be be marked "Printers' Ms." on the cover, the ende bein open, in which case the portage not not expect their com
ounces. 5. Non-subscribers munications to be noticed. 6. No questions will be
answered except those pertaining purely to agriculture or agricultural matters.

## Voluntary corre

ble information solicited, and if it ining useful and season paid for. No notice taken of anonymous correspond We do not hold ourselveected communications.
We do net remen We do not hoil
correspondents.

## Sila, I have just had the pleagure of attending two exhibitions in the North-west, held at at Grentell and $1 n$ 

 on the inhabitants in this rection. The exhibit of horsees,catte, shepep, pits and poutry wat large, omene eng onl
grades, while the majority were purchased direct from $\substack{\text { grades, } \\ \text { mporters. } \\ \text { cellont } \\ \text { sampl }}$

 enabing the farmers to push their work rapidly forward
Is there ny variety of wheat earlier than the ked Fife GRENRLLL, N.W.
There is so little difference in the time of ripening of
the best varieties of spring wheat that no sate advice can be given.]




 can compare tavorably with the lindustrial at Toronto
the exhibits of horse, cattle, fruits and vegetables.
AMBLIASBURE, OMT.
SIR, -What is the cause of reasty pork
SiR, -What is the
Consmance,
IIt is is caused by to
reasty por
N. S. A.

SIR, - When reading the able
of trize essay in the columns





SIR,-Will you please publish in your next issue the
law in reterecce to ditchiuly; how deep a man is com


IThe following, clause 3 , 46 Vic. (1883), chap, 27 , covers
your question: :"In ane of the owners of land, whethe immediately :adjoinngy or not, which would be benefited by makiing a dilch or drain, or by deepeniug or widening
a ditch or drain alread made in a natural water course or by making, deepening or widening a ditch or drain for the purpose of taking off surplus water, or to enab'e the owners or occupiers thereof the better to cultivate make, deepen or widen, a just and fair proportion of such ditch or drain according to their several interests
in the construction of the same ; and such ditch ss $o$ drains shall be kept and maintained sod opect, deepened or
widened, by the widened, by the eaid owners re-pectively and their
successors in such ownership in such proportions as they
ave been so ope
onsequence of a onsequence of altered circumstances, the engineer,
eereinatter named, otherwise direct, which he is hereby ompowered to do upon application of any party inter. cribed in respect of the original opening, deepening or widening ; and in c.se the engineer finds no good reason or such application, all costs caused thereby shall be Act provided" The rest of the Act refers mostly to the duties of the engineer and legal modes of procedure, which are unimportant matters of detail.]



 itend rearing a large nu
annot get milik fort them.
[Many calves are reared in Conda without milk, but whey is generally used as a basis of the ration The sub. situtes used in England are compounds of the same onstituents that are found in mhay analysis, and they ubstitutes advertised in Canada or the United States, there being as yet very little demand for them. Calves have been successfully raised on hay tea, made by steep
ing good early cut hay in hot water. Bean soup has elso proved a success, made by bolling the beans until they are quite soft, then mixing with water in the proportion of one pint of beans to two gallons of water; but the froduced. A little experience here will be your beat uide, regard being had to the state of the calf's bowels, Its appetite and general thriftiness. The bowels may bo laxed by putting small quantities of oil meal into the shouid also be added, which should be scalded so as to prevent scouring. You may now gradually introduce an xclusive diet of your oat or corn meal with linseed. nd the other food may be given in the following proporions : -3 parts corn meal to one part linseed meal; or parts oat meal to one pari linseed meal. If any of these uted for the linseed in slightly larger quantitites, or the ubstitution may be made only in part. This is a vast abject and we shall treat of it more fully when the call eason comes round.]
Sir- Is there any diference in the thoroughbreds with
reagr to the quality of their beef? lof the beefing breeds, namely, the Galloway, the Youlitity is in the order named.]
We have to thank many of our subscribers for their promptness in renewing their subscriptions, and for their cmpiments contained in their letters as to the merits
the Avococart. We hope none of our subscribers wil stoop to flatter us, but will state their conscientious con
victions, favorable or unfavorable. If we through over. sight have overlooked anything that would be of use to he plain, practical farmer, we want to be condemned for , our object. being to make the ADvocart as practical columns are limited, so that many articles must be cut shorter than would sometimes be desirable. In all the etters which we have received during the past tew
nonths, we have found no condemnatory remarks. The ollowing letter which we have just received is a fair specimen of those which we are receiving :-" Inclosed you will find my subscription for next year's ADvocatrio
have obtained more valuable and reliable information rom it than from any other paper which I take. J. J. Bownasvile, oxt." During the past few days we have ecei ed an unusual lumber of letters containing questions pondents will please remember that letters run the risk of being answered unless received not later than the 20th the month. Some questions, of course, must on which case we usually answer by postal card, but our correspondents should not expect us to do so unlese a

Nov., 1884
THE FARMER'S ADVOCATE.

## Ghe Souschold

## Taking Cold.

by mary a. allen, m. d.
"I can't imagine how I took such a cold. I m very careful, I always bundle up well, an wear rubbers when I go out." " yesterday, were you not?
"Yes, but I was not exposed to a draft." "Did you have a good time?
"I never enjoyed a dinner better. I don't know when I have eaten so heartily. Every thing was so nice. Such a I half-expected I should
"What woold you say if I were to suggest that your cold is a result of your big dinner?" "I should say, 'What an absurd idea How could a dinner give one a cold?
"Then you probably would not believe me if I were to tell you that a large proportion of colds are taken at the dinner-table. Did you never notice how very prevalent colds ar Year's after Thanksgiving, Christmas, anic which is ep And people say it is the epizoolio was the not imagining that of big dinnera. was the preceding epidemic or ane a cold ?"

But how can eating give internal congestion,
What is a cold? It is int an unbalancing of the circulation. We general ly believe it to be caused by the driving of the blood from the surface of the body by exposure to cold, to some internad away from the sur f. B internal organ, may have practically the same effect. In perfect health, an equilibrium in the circulation of the blood is main tained, no organ having more than its due share In disease, this equilibrium is disturbed. In health, the whole volume of blood in the body passes through the heart in about one min with If, from any cause, it does not circulate with this rapidity, but collects in an organ, wo a partial stagnation, which we term one organ This superabundance of blood or organs. All causes a decrease of blood communicate with cavities of the bined with a thin skin, called the outer air are it secretes a thin, he mucoustance which keeps the membrane moist, and in good working order. When this mucous membrane becomes congested, we have what is.called a catarrhal condition. The capillary blood-vessels of the membrane become distended with blood, and the result is an in creased secretion of mucus. This manifests self by a "running" of the nose and eyes, by an expectoration of mucas from chial tubes. The mucous alm tract is con ears, nose, lungs, and ailment one part can ex tinuous, so that an affection If, then, we call an tend through all the blood to the stomach, to aid in the digestion of an undue quantity of food, we produce a congestion of the mucous mem brane of the stomach, which, after at time, may extend to the nasal passages, or to the bron chial tubes, producing the condition which we recognize as 'a cold.' The trouble is primarily in the stomach, secondarily in the respiratory organs. This manner of taking cold
sult of over-eating, but not necessarily of glut-

| $\begin{array}{l}\text { tony. } \\ \text { dinary meal for a laboring man would be over- }\end{array}$ |
| :--- |
| Over-eatigg is a relative term. An or | eating for a man of sedentary habits. A quan tity of food that would he justifiable under ordinary conditions, would, in a state of fatigue be sufficient to cause a congestion of the stom ach, and 'a cold' would be the result. No nowing this fact, many people do themselve he great wrong of eating when very tired, an uffer the consequences, although perhaps no ation of the law of stomachs.

"S ation the
onditions of the lungs in usually ascribed to are primarily from disturbed conditions of th stomach. The throat or back part of the pharynx, is more intimately connected with the stomach than with the lungs. The nasal pa sages connect directly with the pharynx, an nasal catarrh is usually a result of disturbe digestion. Inflamed eyes, and itching of the ye-lids, can often be traced to an irritated con dition of the stomach. Close watching of the acts in the case will cent beyond a that a hearty supper wil ause the to awaken the next morning wilt dry sore throat, and a bad breath, both indcative of irritated stomach.
"In children who are troubled with nasal catarrh, or weak eyes, there will usually be ound other and more direct symptoms of a inve catarrhal state of the alimentary canal, torpidity of the bowels, alternating. perhaps, wis diarrhea, a coated tongue, a peculiarly bad breath, which an educated nose recg ccompanied with catarrh of the stomach.
 tarrh,' 'I what that mother would have thought if she had heard some one say, 'Don't worry about your child's lying. If he don't do that he'll probably steal.' The argument is as sound in the one case as in the other. If your child has catarrh it is an evidence that something is wrong in the physical organism, just as lying is an evidence that something is w. in the moral nature. In both cases one should s ek the cause and easily has a weak diges person who tal condition of stomach, and symtion, an irritable concous membrane in other pathetically, of balaneed, the blood having a tendency to leave the surface and to stagnate in internal organs. This condition is to remedied, not by local medication, not by 'catarrh snuffs, or 'pectoral balsams ;' but by a careful study of the laws o health, and obedience to them ; to learn wher and what, and'; how to balance the circulation these are the studies to be pursued if, ,"ne wishes to learn now to avoic
At an hotel recently a man and woman of Milesian extraction took seats at the dinner table. Directly afterwards a young couple eated themselves opposite, and the young man took a stalk of celery from the glass in the entre of the table and commenced eatig he Irishwoman opposite looken the nudge ment with an air of diggust, and whisper, "Phe lim. dear, d'ye mind the blackguard eating the $\lim _{\text {bokay? }}$

## THE LAST STRAW

$\qquad$


back," | on |
| :--- |
| da |
| bo |
| bo |

$\qquad$

R

 yadd pie, or a a ne
header of oboety."
But pretenty
nowerful, and Luce bexan to believe that the whole end
and aim of lile was domestio thritt, money saving and "My drara," said Matthew, "If you thought you coulc And after that bhe the poes
 cuaction.
 ing and dousting and digging out or ashes marked.
M. Why d
Matthew Maththew gave a shart laugh. She ripen up her husbands oid suit and eut a patte
 Wiilt try it."." (You can do anything, ms dear !" sald Mr. Bellende admiringly. filt that she had her rich reward. Company yegan to come as soon as nice weather set in.
All the affictionate relations of Mr. Beilenden soon dis-


 valises with that f
of lites
hoset tifte;








 he world, He'll make no more trouble than a cricket.
sohn's wiot thounht heo couldn't have thm because she

"And sarah don't like company." "it "o observed Lucy,
"I am suppoest to be fond ot it "And Reuben's sirls don't want old folks staying there.
 Lucy bit her lipg to keep bat
droom, and your cousin The Bediedordipate hate the front


 hand livhtly the spinning wheel is."


added inr itab
hubband
hual

"I wonder", she said in a whisper, "if my poor tired sorubbed pavements if I $I$ were to dieq
ghost in pavements and an

But the little bedroom was fitted up, for all that, as
 low-crowned
Ho hat sh
thought she time to get accuainted with himy. much, if she only had
But she was
there we mat But she was
there
chickens, the
She chickens, and
shom ind
watching her
He came oul

 "Aye," absentl| leinure to took aper the old man. "Did I tell Cousin Joseph's
the blade and polishing it with his silk handkerchief.



 $\underset{\substack{\text { ing and } \\ \text { chunch. } \\ \text { iThe }}}{\text { ithe }}$








Your wife is doline the work of a household of ixteen




 a case for lynching !",
Matthew had grown pale
Mat never thonght of this." said Uncle Paul
Mathew Bellenden rolled down his shirt slceves, put
on his coat and went into the house.


 Bride at onee.,
sume doeeres a treat," he said. "He shall spend the
sump with is." And then he went to tell Luč.
She had tainted amony the bi,
 Heflv reflused to revolve ony longer
His heart trew cold within him. "It is better than any medicine." he said, "to ko
that Mat Mew is thinkinv of teand for mee,"


[^0]
## gatinute gatays g mparturent.

My Dear Niecrs. - A little advice upon the subject of matrimony may not "come amiss" to ome, at least. Manv young people rush into hese matters blindfolded, as 'it were; they neet one month and are married the next, or one such foolish thing. Now, dear girls, my
dvice is ser ot hasty to engage yourself, or to marry when engaged. Do not receive the attention of any man with whose reputation you are unac quainted.
Look at the fontprints of time and see how many have been forced to spend their days in misery, through a hasty and thoughtless union. Remember your happiness in married ine de who is not a good lover will never be aned husband. and one who does not satisfy before the ring is on, never will afterwards. Know whether he will make you his friend or only his slave. Know whether he is unselfish enough to desire your happiness as well as his wn. Marriage is a happy thing for woman when it gives her a companion, a lover, a protector; but the awful loneliness of a neglected wife is the most intolerable of sorrows.
Never marry a man to get rid of him, to
ablige him, or to save him. A man who would oblige him, or to save him. A man who would yo to destruction without you would quite as ikely go with you and perhaps drag you along. Do not marry for a home or a living, when by taking care of your health you can be strong father mother or guardians sell yo form or position into bondage, tears and life-long misery, which you alone must endure

> niser The

The counsel of a good mother is not to be ig ored, for who is better suited to enter into the tender, loving mother, who watched over you from infancy to childhood and from childhood to girlhood? With her you can trust all your mable value.
This month we offer a prize of a volnme of Scott's Poems, beautifully bound, for the most concise sketch of The Life and Works of by the 15 th Dec.

Minnie May.

## WORK BASKET.

An article of great convenience in the house hold is a clothes-pin bag. It is made of heavy shirting, after the style of the school bag, with protected from over, so that the pins wir be enough to be worn over the neck, allowing the bag to hang down in front or on the side. Such ing out the found very convenient when hang. the clothes, the pins can be easily cared for. -
A length of double fold white canton flannel placed under the table cloth will tend greatly to preserve the polish of a handsome dining
table; and many people are pleased with the softness thus gained, whether they care for their
table or not table or not

Knitted Shirts are especially pretty for children, though suited as well for grown people; and the pattern is so simple that an one can follow it with satisfactory resulto Either Saxony or fine Germantown yarn is tho long bone or wooden needles about the size of an ordinary slate pencil. Cast on some mul tiple of nine, governing the number of stitches by the width of the shirt you wish to make but they must be exactly divisible by nine, a that number is required for each figure in the pattern. A shirt for a baby can be knit in one breadth, but for larger sizes it is best to knit in two breadths, and then sew them together when finished. Cast on the number of stitches you will need, and for the first row seam 8 and knit 1; repeat this to the end of the neede; second row, seam 2 and knit , repeat as befor Cear across, 3ro 4 and 5 , 5 , repeat; 4th row, seam 4 and thit 5 , ane repeal knit 3, and repeat, 7th row, seam 2 and knit 7, and repeat; 8th row, seam 8 and knit 1, and repeat. Knit by this pattern as deep as you like; then for the top, either rib, by knitting 3 stitches plain and seaming 3 , or knit entirely plain. After sewing the breadths together, cut a shallow yoke of cotton or flannel and sew the shirt to it. If desired, the shirt can be sloped by narrowing to nearly fit the yoke when the plain or ribbed top is being made. For a child from one to two years old, instead of having band, knit the plain part long enough to come ap to the shoulders, where it can be joined with a knitted or crocheted strip oier to shoulder tip, and form a waist and shirt com with narrow crochet; the ribbed knitting will we so elastic that the garment will require no opening in the back, but will easily slip over the head and adjust itself to the figure. Finish the bottom of the shirt with knitted or cro. chetted lace; the latter takes the least time. -
A small mirror can be made very attractive by framing in white velvet about five inches deep, and paint sprays of flowers across the the spray painted partially on the glass itself, gives a very pretty effect.

## Recipes.

Chicken Jelly,-Good for invalids. Select a lean chicken, cut the meat from the bones in small pieces, and with a sharp knife remove the skin and fat ; then put the meat and bones in a porcelain kettle, with cold water enough to cover them. When it begins to boil, skim carefully and then let it simmer three hours. Strain and remove any particles of fat that may have escaped your notice. A piece of clean what foren Return the piece to the kettle and boil down till it makes jelly when cold. Put a little salt in when the chicken is put on to boil if the patient can take salted food.
Oyster Roast. - Put one quart of oysters in a basin with their own liquor and let them boil pepper and a heaping spoonful of butter. Serve on buttered toast.

Dumplingas for Chicken Pot-Pie or Soups. -One cup of buttermilk, one teaspoonful of oda and a pinch of salt, thickened with flour, moulded, out and placed in a tin as for baking. Then place some small article of about one inch in thickness inside a steaner ; upon this place he tin of biscuits and steam twenty or twenty-five minutes over the kettle of soup. When served the dumplings can be placed in the soup or pot-pie, and they will not fall,
an boiled dumplings persist in do
It is often convenient to boil several kinds of vegetables in one kettle. For this purpose mall bagg made of coarse thin cloth are ex cellent. Make the bags the desired size and run a string through the top. Place each kind vegetable in a separate bag, and tie the
 are cooked, hang them up for a few minutes to allow them to drain. When cooking a "boiled dinner" in winter the vegetables eep their shape and are superior in every way when cooked in these bags.

## How to Cleanse Waste Pipes

A simple, inexpensive method of clearing the A simple, inexpensive method of clearing the the stoppace of which often entails great ex hense, is said to be as follows:-Just before retiring at night pour into the pipe enough iquid potash lye of 36 degrees strength to fill the "trap," as it is called, or bent portion of the pipe just below the outlet. About a pint will suffice for a washstand, or a quart for a bath-tub or a kitchen-sink. Be sure that no water runsinto it till next morning. During the night the lye will convert all the offal in the pipe into soft soap, and the first current of water in the morning will remove it entirely, and leave the pipe as clean as new. The sopurpose. The lye should be kept in heavy glass bottles or demijohns covered with wick work and plainly labelled; always under lock when not in use.

## Venice By Moonlight

Then I called a gondola, says some one, and went up the Grand Canal. Thepurple sky was brilliant with stars, and the light of a ful 1 moon lay wide over land and sea. As the night went on the past seemed to give back to the from the wall of many a decaying palace blurred and dimmed by noonday, there started forth the fair, fresh colors which had adorned it when Venice was in her pride centuries ago. Once again I could think of her as the proud Bride of the Adriatic, begirt with all glorioue the southern seas-with her haughty nobles planting the Lion of St. Mark in conquered cities, a very queen omnipotent, reigning in regal majesty, enthroned upon her hundred isles.
But who, under the spell of moonlit Venice will mourn over her pass history? What it her Doges, her Nobili, and her triumphs on land and sea are no more? The glory of the haughty Republic may be gone, but the Venice her balcony to greet her dark-visaged lover,
and Jessica trips into a gondola with Lorenzo whilst Shylock, thinking of his loans, passes from the market-place, "where merchants most known as the Ponti di Rialto
The Venice of song cannot die; it is an en chanted land, and who is there who has not felt her spell as he drifted over her moonlit waters ? By daylight, when rain is falling, a spirit of utter desolation, dreariness, and decay, seem to brood over the city, whose silence touches you like the dumb agy of who for words but night omes and moonlight decks ber with a thoubel of love, of beauty and of song.

## Thanksgiving.

Tis not the Sabbath, yet the constant clang Of busy shops has ceased, and daily toil. The ponderous hammer stops its heavy bang,
And active commerce stays her race awhile.
Though grim November whistles through the trees,
And chaffs the spirit of the sullen rive And chaffs the spirit of the sullen river;
Though flowers are dead and pale misfortune The onward march of winter with a shiver.
Though spring's delights and summer's wealth are past,
And autumn's
s crown of gold has disappeared Though gloomy winter rides upon the blast,
And shakes the snowflakes from his heavy beard.
o-day the soul of beauty is abroad and harmless mirth attends her higher lord. To-day the table groans beneath ins load
o-day no wail from farmer's life ascends, But heavenly hosts in rapt attention hear The mighty song in which a nation blends
ts glad thank-offerings for a fruitful year.

The gentle kine with double portion fed, Forget the sultry summer's drouth and stint And patient plow horse meekly turns his head

The watch-dog stays his warning bay o romp with chiliren on the threshing floo one are so hungry there are none so poor.
Attend, oh, Friend and Father of our race, bend, God of our life, inspire the humble grace,

## To Clean Mica.

Wash the mica thoroughly with soap and ater, then rinse with clean water before using hemica!s of any kind. Rub the mica with owdered borax moistened with a little wate use a wet cloth. Baking soda can be use the same way. Water and vinegar or am onia and water, equal parts, have been othin th some success in many instances. Nothing we have used as a wash has given complete
解 he mica out of the stove, anet knife blade, split hin instrumen, which will leave the under layer as bright as new. Mica is susceptible of being divided into layers so thin and light that they can almost be caruied by, the air.

The Schoolmarm's Story
A frosty chill was. in the air-
How plainly I rememberThe bright autumnal fires had paled, Save here and there an ember.
The sky looked hard, the hills were bare And there were tokens everywher

I locked the time-worn school-house door, The village seat of learning, Across the smooth, well-trodden path
My homeward footsteps turning; My heart a troubled question bore And in my mind, as oft before,
A vexing thought was burning.
"Why is it up hill all the way ?" Thus ran my meditations; The lessons had gone wrong the
And I had lost my patience. "Is there no way to soften core, And make it easier to bear

Across my pathway through the wood A fallen tree was lying, On this there sat two littte girls,
And one of them was crying.
I heard her sob: "And if I could I heard her sob b "AAd if I could I'd get my lessons awful good,

And then the little hooded head Thank on the other's shoulder; The little weeper sought the arn
That opened to enfold her, Against the young heart, kind and true,
She nestled close, and neither knew She nestled close, and nei
That I was a beholder.
And then I heard-ah I ne'er was known Nor queenlier counsel ever heard In senate, house or palaceI should have failed there, I am sure, Don't be discouraged ; try on
And I will help you, Alice !"
And I will help you." This is how To soften care and grieving
Life is made easier to bear By helping and by giving. Here was the enswer I had. sought.
And I , the teacher, being taught And I, the teacher, being t.
The secret of true living.
If "I will help you" were the rule, How changed beyond all measare
Life would become ! Each heavy load
Would be a Would be a golden treasure ; Hope would prevail in every lot, Hope would prevain in every
And life be only pleasure. Wolstan Dixey

## Cured.

Mrs. Flamley attempts to be fashionable. The other night, when she dressed to go out, he appeared with a silver spoon on her breast. "Margaret, what ing the world do you cal that?" asked her husband
"This was my grandmother's sauce spoon You know that its fashionable now to wear old tamily plate."
Flamley said nothing more, for he knew that it was unnecessary to argue with his wife. The ext night, he aske put on her spoon. After while Flamley came out with an enormou butcher-knife on his shirt-front.
"Henry, what is that?"
"This was my grandfather's butcher-knife It's fashionable now to wear"-
"I'll take off the spoen
"All right! Off goes the knife."-[Arkan aw.Traveller.

The Wayside Well.
Ho stopped at the wayside well, He stopped at the waysido well,
Where the water was oool and dep;
and There wore foathery ferns 'wwixt the mose
stotones
And gray was the old well sweep.

He left his carriage alone
Nor conlm coocaman or footman tell Why the master stoppes in the
To drink at the wayside well.
He swayed with his kid-gloved hands Thine well sweep creaking and flow, The water plashed back below.

He lifted it to the earb,
And bent down to the bucket's hrim, No furrows of time or care had marked
The face that looked back at him.
He saw but a farmer's hoy
He saw but a farmer's hoy
As he he stoped oier the trim to drink


The eyes were sunny and claar, Anile with brow undimmed by care, hat
ayd curls of chestnut hair
He turned awav with a sigh : Nor could coachman or footman tell
Why the master stopped in his ride that day Why the master stopped in his ride that day
To drink at the wayside well.

Home Adornment
To those ladies who are so unfortunate as to be dep' ived of the opportanity or learnment, we would suggest a very simple way ot ornament ing table scarfs, bracket or mantel hangings, or sofa pillows. It is to buy brocaded or em bossed velvet, which is very reasonable in price now, as it is out of style for dress goods, and follow the outline of leaves and flowers with a fine gilt or silver cord. Choose a style in which the pattern is rather small and it will have the effect of oriental emroids. The variety bought at all dry goods silk thread twisted with the gilt is the prettiest. After it is done, use it in bands across the ends of scarfs, or on draperies, or as a heading for fringe and upon any cloth, velvet or plush material. Pretty little hand bags are made and hung in conspicuous places-the back of a rocking chair, for in stance-in every room, to be used for sewing materials or as 28 a scrap bag. They are mad of every material and are embroidered or painted on one of the two sides. They are the usual oblong shiph. They are very pret and are hung by ribands. dy , in delicate prepres and small figures. These are improved by emphasizing, as it were, the dark shades in the figures by a tracery of embroidery silk to match, using the outline stitch. A pretty ornament for a centre tahle is a photograph case. These are made in shape like a photograph, but larg enough to hold from six to a dozen photographs A lovely one we saw was made on the upper side of light peacock blue sateen, embroidere with a small spray of pink apple blossoms. The underside was of wine-colored velvet. The edge was finished with a small silk cord. The upper side is a long inch shorter than the under side, and this defioiency is filled at the bottom
by a band of velvet like the back of the case. One corner at the top is turned back and the word photograph is worked in scrip letters, ass pretty made of the embossed velvet, described at the beginning of this article.

How to Keep Celery.
We have tried several methods of keeping celery in good condition for family use throagh the winter, and unestan: We take a flour ence to the following plan: We take a parrel through the middle. This gives us two tub-shaped vessels. In digging the celery we leave all the roots on it, only shaking off the dirt. Take one of the tubs and sprinkle abou two inches of moist sand over the bottom Then give the barrel a slight incline, not enough to move the sand in the bottom, but simply enough to make the celery plant lay up right against the lower side. Pack the plants snugly on end, the roots in the sand, unil the tab is filled full, which will require about 100 plants. After with the hand and interstices, leaving only the filling up all the When this is done, a slight leavinking of water, say a pint to a tub, and the work is done. Roll the tub in a cool dark place in the cellar. When you begin to dark pe the celery for use, tip the barrel so that the sand will not fall away from the remaining plants. This will be found an admirable, con venient plan, and under it the celery will im prove from day to day. Sand is very much better than earth for packing. It retain moi ture hetter and is more apt to be free from substances causing rust, or insects thave tested prey on the tender plants. We commend it the above melod of its uniform cood results. [Fror Hise Fireside Magazine

## Not at Home.

This is, with many who would shudder at the bare thought of a falsehood, a convenient method of refusing to see visitors. "I never, says a lady, "sent that message to ther forgive once, and for that one I thre years and myself. the servant that morning to say Not at home' to whomsoever might call, exent she tnew it was some intimate friend, I felt my cheeks tingle, and the girl's look of surprise mortified me exceedingly. But she went about her duties, and $I$ about mine, sometimes pleased that Ihad adopted a convenient fashion by which I could secure more time to myself, sometimes painfully smitten with the reproaches of my conscience. Thus the day wore away, and when Mr. Lee came home, he startled me with the news that a very dear and intimate friend was dead.
"'It cannot be,' was my reply, 'for she exacter by her dying pillow, as she had something of great importance to reveal to me. You must be misinformed; no one has been for me,'-here suddenly a horrible suspicion crossed my mind, " 'She sent for you, but you werè not at home, said Mr. Lee, innocently; then he continued, 'I am sorry for Charles, her husband; he thinks
her distress was much aggravated by your ab-
er distress was much aggrava called your nan piteously. He would have sought for you, but your servant said she did not know where yo were gone. I am sorry. You must have been out longer than usual, for Charles sent a ser vant over here three times.
"Never in all my life did I experience such loathing of myself, such utter humiliation. My servant had gone further than $I$ in adding falsehood to falsehood, and I had placed it out of ny power to reprove her by my own equiva cation. I felt humbled to the very dust, and ext day I resolved, our tho riend, that I would never again,'"
circumstances, say, 'Not at home!

## Humiliated.

One of those good-natured persons who are always bent on imparting information was humiliated not long since
A negro was recently seated on a rail-fence in Arkansas, intently looking at the telegraphwires. A gentleman passing said,-
"Watching the wires ?"
"Yes, sah."
"Waiting to see a message go by, hey ?"
The negro smiled and said, "Yes, sah."
The gentleman kindly told him that messages were invible, and explat length. Conoluding, he said:-
"Now you
"Now you
"Yes, sah."
"I'm a telegraph-operator at Hazel Switch Station, sah."-[Pittsburgh Chronicle.

## "Wife."

Ruskin, whose voice is that of a prophet, re calling men and women to those domestic ways in which pleasantness and peace are found It is the great word in which the English and It is the grazes conquered the French and Greek. I hope the French will some day get a word for it instead of femme.
But what do you think it comes from? The great value of the Saxon words is that they mean something. Wife means "weaver.
You must either be house-wives or hous moths, remember that. In the deep sense yo must either weave men's fortunes and em broider them or feed upon and bring them decay.

Wherever a trae wife comes, home is alway round her.
The stars may be overhead, the glow-worm feet, but home is where she is, and for a nobl woman it stretches far around her, better tha houses ceiled with cedar or painted with ver milion-shedding its quiet for those who elso are homeless.
This, I believe, is the woman's true plac and power.

A young fellow offered to kiss a Quakeres Friend," quoth she, "thee must not do it. Oh! but, by Jove! I nust, said the your Well, friend, as thee hast sworn, thee mas"

ऐtricle ©om' Department.
My Dear Nephews and Nibges,-You will observe that, according to promise, I have given you some new forme puzzles thia month, thus having a greater variety from which to select. I hope you will try to send some really good ones for our Decembengst our ber. I dia not coa a prize given separately, and is intended for adults as well as children. The object desired is to obtain the best deduction object desired is to obtain picture. I thank all or inference who the autumn leaves; the collections were very large and very fine ; especially pretty were those of Miss Alice M. Hume, of Burn Brae P. O., Ont., who wins the mouth organ. We hope Miss Alice will learn to play some pretty airs upon it, which will Not I difficult if she has an ear for music. Now I hope you will send me some good whizh finishes the concluding number for 1884 , wher receiving the competition for prizes, the answers the resumbr. Uncle Tom. in the


Change one letter at a time.
Exchange boot to shoe in three moves. wood to coal in three moves.
cot to bed in four moves. 2-nUmericil enigma

I am an old
My 4, 19, 6, is armed conflict.
My $7,4,20,12,6$, is a proprietor.
My $2,7,5,17,3$, is a person of rank.
4-transposition.
Whole I am a county in Ontario. Peel, Ont. Behead and transpose and $I$ am the name of man spoken of in the Bible

A uth 1 ce shot a ANAGRAM. of birds in the squire's
park; the gamekeeper sid, I shall prta. ot o
that, but the uth ed away with an! of de-
fiance; the squire has, nd of the whole ey and
called on this uth to answer for his offence, but

5th, I an-piano.
6th, ballad -all a.
7th, her is cherish.
CHANGED HEADINGS.
Conterfit $=$ the oyster plan

1. Counterfeit $=$ the oyster plant.
2. Reverence $=$ a comm grain.
3. Search for $=$ an edible plant. .
4. Searcermine $=$ a troublesome wild plant.
5. Blow musicaify-salsify. 2. Hallow-mal ow. 3. Parley-barley. 4. Seekconnected diamonds. Connected diamo
6. In heaven as well as earth
7. In China it has its birth.
8. A christian name.
9. Leads many to fame
10. In joy thoufh not in mirth.
11. In bonne's, feathers and ties
12. A word to expresber.
13. 'Twas made of lumber.
14. In puddings but never in pies.

Set names and nomber apart in state
Set names and Eng kish king appears ;
And an Eng
倍
(October the 1st of his birth the date),
Who was crowned while yet a child of eight Who was crowned wh
To reign for fifty years.
To reign
Ans-
H
TEA
HENR
ART
$Y$

Henry Third.

Change one letter at a time
Exchange boy to man in three moves
Ans.-Boy, bay, may, man.
Change well to sick in four mo
Ass. - Well, sell, sill, silk, siok.

## Answers to October Puzelos

1.-A pound of pluck is worth a ton of luck.
2.-The heart has tendrils like the vine, Which around another's bosom twine Outspringing from the parent tree Of deeply planted sympathy; Whose flowers are hope, its fruits are Beneficence its harvest is.
5.-My brother Arthur was travelling in Africa, and while there met with some halr breadth adventurea:
in his own words:-

- One night, the moon being up, my oomrade and I went for a walk. We had not gone far when we met a negro, as we thought under the influence of rum. He was neatly dressed in suit of tweed, and so we went to him and ac costed him in a friendly manner. He did not speak, but allowed us to bring him home, wher he lay on the floor as one insensible. My com. rade and I sat down to play cards, and scaroely had we turned our and plunged it into my comwith a long kin pas about to attack panione I wrenched the weapon from him, and throwing him on the floor, already red with my dead comrade's blood, tied his handa and feet and made my escape."
6.-Hull, Oxford, Liverpool, Dublin, Dundee, Cork, Wick, Bath, Belfsts, Ayr, Wakefeld, Swansea, Stock port, Nottingham
7.-Attempt the end and never stand to
doubt;
Nothing's 8.-Gay,

> day, hay, ma E L B
$\begin{array}{lll}\text { ELEBA } \\ \text { L } & \text { EAB }\end{array}$
BABE
BABE
ADEN
9.-Mat-hem-atic-s-Mathematices,
10. - Fringe, ring, grin, in

ELK
LILLY
ANCIENT
ALLIGATOR
AFFABR
TOT
R
Sandy was as country gardener, and like any other country lads, he had a sweetheart One night Sandy told her that he "ikit" "D "awfu' weel." She simply responded, "D Sandy was not very sure whal that thought he would ask his an you tell while at worli, he said, "Father. cany" replied me what 'ditto' is ?" "Ou, ay, soang?" "Yes." his father. "Dae ye sae thav ane, that's jist the "And dae yz sae that "Well, that's ditto." Grasame?" "Yes."
cious guidness!" exclaimed Sandy. "Did the cious guidness!

Names of Those who have sent Correct Answers to 0etober Pizzies. Mary Marshall, Addie E. Davidson, Ed-
mund Pepper, Annie B. S. Scott, Ellis F. Augmund Pepper, Annie B. S. Scott, Elis F. Aug-
ustine, Esther Louisa Ryan, Geo. Van Blaricorn,
Will Thirlwall, Ada Hagar, Alice M. Hume, W. M. Head, Minnie L. Weldon, Robert Kerr, Jessie M. Fox, Amelia E. Walker, Eva Hen-
derson, W. L. Sissons, Henry Reeve, Maggie derson, W. L. Sissons, Henry Reeve, Maggie
F. Elliott, Tiny Docker, Tillie Silcox, Robert Wilson, Thos. Armstrong, Martha, Hodick,
Peter Lamb, Becca Lowry, Willie B. Bell, Peter Lamb, Becca Lowry, Willie B. Bell,
Mary McArthur, Kate McKelvey, Belle McLeod, Sarah M. Brett, Clara MceLean, Philip Boulton, Maggie R. Stockson, Jas. Watson,
Lizzie Watson, Sarah E. Miller, Katie Miller, yron $G$ Bowerman, Adelaide Manning Carrie Christner, Goorgina Smith, Christena Hadeock, A. J. Taylor, Ada Armand, Chas. Voodworth, J. W. Forbes, R. J. Risk. Sarah Vessel, William Carney, C. Gertie Heck, Lotie A. Boss, William S. Howell, Fred. D. Boss.

## ulubhing fombinations

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The American Bee Journal, Thicago. The leading bee journal of this con
tinent. For $\$ 1.35$. The eash must i
order, and no commission can be allowed no the abore rates,

## OUR USEFUL PREMHUMS for 1885.

For One New Subscriber : our choocs op this pollowise Trees especially adapted to the Northwest. The Crab Apple-Two plants by mail, of what in
said by Mr. Lesiie to be the best in the world. These
 The Ash Leaf Maple.-One packet of seed or sil The silver Poplar. one packet of cuttings or six
 number.
 a description of which appears on pag
ber.
he Borse Chestnut is one of the most beautiful and useful trees grown, of very rapid growth, and for
shade or ornament cannot exe exelled. One packet of
seed from a mand seed drom a grand tree owned by the proprietor of this
journal and can be been from the study window, see page
xet of September issue or in six Left of September ispue, or six young plants.
The Black Woint
The Black Wainnt, Of all timber for making
funniture orother userul. purposese this bis onsidered ine
most valuable, and is now very scarce. This exoellent
 from trees growing on the old hon
this paper, or six young trees.

CHROMOS
 S 5 SEEMDS.
A useful collection of Vegetable
varieties, and one packet novelties for 1885 . A choice collection of Flower Seeds, te STRAWBERRY PLANTS. Two plants, Prince of Berries, said to be the the
latest and best of the many excellent varieties, and is of Two plants, Daniel Boone.-This plant has grown be in greant demand, both as to lavor, productiveness and keeping qualities.
 this berry, it has this season averaged fully as large
berrieg as the thison, and provucod more riuit.
lane
large grower state that he large grower states that he could fill a basket sooner
trom the James Vick than from any other strawberry.
Two plants of the Dwarf Juneberry.-These
plantso
hardy ties. The fruit ripens early, and in enormous quant Six plants of the Russian Mulberry. - The popu
larity of this plant still continues, and we have decided ROSES
So vey few really good roses are to be found in the
country gardenot of Conda that we have decided to offe
 roses if bought from florists is 50 cts. to to pi, but we offer
your choore of either of the following for one new sub-
scriber: scriber: One plant of the General Jacqueminot.-This
rose is one of the finest and prettiest ; in color it is a rish velvety scarlet, changing to brilliant crimson. The bud
of this variety are magnificent, rendering them especial value for booquatet, and ton to wearing in them but-
ton hole It is also a good rose for forcing. See issue
opril,, 884 t ton hole.
april, 1884.
 the most beautifil of the yellow. roses, and in the bud
state can sacely be turpased.
for bouquets, and makes anexellent pottinge plial value
The Lady's Manual of Fancy Work.-
 ations. It is a book whi:
the hands of every lady.
For Two New Subscribers:
your choork or tur followis
Large and beautifully finished
"Windsor CHROMOS
Thindsor Castle,", or "Balmoral Castle."" ornament to any home.
Or Lithograph of


 rugs it cannot be exaeelled. Kivery housekee
have one. See page 077 of Ootober issue:

For Three New Subscribers
The World's Cyolopedia and Library of
 oovedge The White Mountain Apple Parer.-This ma
 and most serviceabie one which we know or, and can
strungiy, recumend it to every person. Per expresa a a The
The White Mountain Potato Parer-is gaid to
be not onty the betat one mate, put the only one
manutactured which will manutactured which will pare at potato bettor than in
con be done by hand, taking off a thinner paring from
 The "Household" Special Premium, the new Ameripages than any similar works. No house should be with.
out one.

## our rulies.

Each new name must be accompanied with $\$ 1$ for the
annual subscription The premium is for the person who gecures the new
name, and does not in any way belong to the new eub All plants, seeds, soc, will be sent free by mal
early next spring. Booke, chromos, ec., will be mailed
ree
 Send for sample and co
Sauple copies sent free.

The FARMER'S ADVOGATB, London, Ont,

## Caution.

In answer to A. J., Lucan, Ont., we mater
observations, which cover his questions:
obsern
Despite our continued warnings, larmers will allow do not require. Some unprincipled travellers use the
nost plausible means to obtain farmers' signatures unde
not talse repretentations; soome of them, when fairly cornered are found not to be acting under the instructions of their principals. Some farmers have been ruined by this clase these pretending agents have been exposed by tegal means notwithstanding the mgny cloaks they put on. Ther
are many hoil armers, but thorable ageats travelling and doing good to possible be curtailed. It is a difficulte matter for farmen to detect the fraudulent falsifier, and even when one had
been detected and his vile plans are known, he is not de barred from repeating hio schemes, and is enabled to
fortify himself by adding clauses to his be in no hurry to sign your name to any paper; tako be in no hurry to sign your name to any paper, ta
three days to consider and consult your best friends; see that a lot of clauses that are intended to make you liable you put your name to. If you really want trees at 500 each or $\$ 3$ that are only worth 10 c., you can tell the agen
that he you will forward the order, in a few days. If it be for set of books, an implement, or anything else, do not sig:
your names on travellere' books. Send your address direed your names on travelieres books. Send your address diree
to the head office; you can mention the agent's name and you will have the goods if you want them. Remember
you are a free man until you sign your name. Perhape you are a free man until you sign your name. Perhapa
you have done as we have done too often, signed our you have done as we have done too often, signed ous
name to things that we have atterwards regretted. We have been so often misled that iwe have concluded to send our address direct to headquarters; it is found muod
more satisfactory. Any wares that you may require aro nore satistactory. Any wares that you may require and
advertised for sale by some responsible firm. The firm, il a good one, will make arrangements about delivery bet ter than you can
no secures the new
ig to the new sub
ent tre by meid


Commercial.
Thi Faruir's Advocats opyics, weather has the past month been. mild and favorable for fall plowing and farm work of all kinds. Trade is very quiet and dull. Merchants are complaining that farmers are not marketing their products, and hence trading is very light.
wheat.
There is no change to note in the wheat sitution since our last, except that prices stil have downward tendency. Late cable ad vices contain nothing new and certainly noth ing interesting, and their general tone was expressed in unsatisfactory terms. Notwith standing the low price the movement of whea in the Western States has been free, and the receipts are liberal. Stocks at some points ar accumulating. In order that our readers ma have some idea of the probable wants and sur plus stocks of the wheat growing countries of Grain Trade List astimate of probable whent port surplus of the wheat exporting countrie and the probable wants of the wheat importin
countries for the campaign of 1884 and 1885


Total, quarters..
 out overproduction and hat farmers are growing too much wheat. But becomes a pertinent question whether we have too much wheat. No doubt the price is low, but is it bad for the country in general that we have cheap bread? The great mass that they can now bug a barel of four for four dollars. But in order to benefit the farmers wheat must be permanently cheap and not pro. duced when articles entering into the cost of production are high. Farmers, as a class, raise those crops that in their judgment pays them best, and when they find wheat growing un profitable they will make a change.
It must not be forgotten that when an article of food is very cheap the consumption is almost invariably increased, and thus the very cheap ness of that artivle tends to cheok saper abundance. Just now cheap bread comes of work and the gradual reduction in wages.
Farmers must also bear in mind that the
chasing powers of a bushel of wheat, say at 75 cents, is about as great as it was two years ago at say $\$ 1$ to $\$ 1.10$. This is a very important factor, and one which farmers lose sight of. clover sebd.
Tais article is a light crop, and it is doubtfu aether there is seed enough in Canada for the
irely by the prices in the States, and the ex port demand from England and Germany.

All through the section where these are grown the crop is very fine, and the yiel above the average. Prices will be lower tha last year, but at present quotations, 90 c . to \$ they will pay well.

## appas.

A leading apple dealer in London, England,
writes as follows, under date Oct. 16th : $h^{n-2}$ "With liberal receipts of apples from the tates during the past two weeks, the marke in London has been quite busy. The quality of the fruit on offer, in many cases, leaves omething to be desired, but occasionally an xtra ine parcel che been competitio in favor of red froit, but green fruit is not in any way neglected. With an improvement in the stock market will now begin to harden and the prospects for November month may be considered good. We offered yesterday 1,100 barrels States apples shipped at through rate vic Liverpool to London, and realized as follows for sound well-packed fruit:-Baldwins, 13s@17s. per barrel ; greenings, 12s@14s 6d per barrel N. spy, 13s 6d@14s 6d per barrel ; kings, 15s@ 18s 6 d per barrel ; spitzenbergs, 14s@16s 6d. hive stock.
The British cattle trade continues dull and unsatisfactory, but the severe depression reported some little time ago has been slightly modified in the right drection. Supplies all grades are heavy, and wesume a healthy tone. The stocks are not only ahead of requirements, but quality is poor.
The following table shows the exports of live stock from Montreal during the week ending October 25, with comparisons, as compiled by


Lucerne
Montreal.

## Cort week 188 <br> Cor. week 188 Cor. week 188 <br> Total to date. <br> To same date 1883 <br> To same date 188 To same date 188

$\begin{array}{rr}\text { Cattle } & \text { Sheep } \\ 372 & 340\end{array}$

The w
To
Llasgow

|  | 158 | $\ldots$ |
| :--- | :--- | :--- |

(he lake total shipments to date 13, 27 quarters.
butter.
The demand for strictly fine is good, and reamery is quoted in Montreal at 26 cent Dairy is worth 17 cherse.
A quiet and steady market has ruled for
some time. The heavy export movement from Montreal this season is worthy of note. The Montreal Gazette says :-
'The heavy export movement of cheese fro Montreal this season is a fact of considerable significance since it marks an epoch in the history of the trade, and shows how rapid ha been its development, literally by leaps and bounds during the last few years. Several years ago the proposition that Montreal would export over 1,000,000 boxes in 1884 would have been considered cionary. But wil in the production, stimulated by the greas natural advantages which this country enjoys. The exports to date reach within a few thous and of one million boxes, and the season ha yet four weeks to run, during which, we should think, fully 150,000 boxes will be added to the total. Now if we allow 150,000 boxes as the American product shipped via Montreal, whic is a fair percentage so far as can be ascertaino it leaves $1,000,000$ boxes exclusively of Canadia product, which in round figures may be value $\$ 6,000,000$. Our ship York by several thous ceeded thes the difference between the shipments of these two ports has been very materially lessened, so much so that New York dealers can no longer afford to ignore our shipments or the condition of the trade in Canada in forming an intelligent opinion of the general siiuation. The state of affairs in Canada is yearly becoming a more important factor in the cheese trade of the world. The quality of Canadian cheese averages higher than the American article, inasmour product are skims, two or three per cent. of our productartities al whereas there are Now York. This is a point ways orong escape factorymen, as with the exercise of a reasonable amount of care in manufacture it can be made to sell still more in their favor. But the Canadian method of doing business does not present such a favorable comparison. The pernicious contract system, which has produced so much evil, has been followed this season to the manifest injury of the trade, and the petty jealousy that aters for remany members of gret. It is harly to block trade in the country mercilse bids. Anything to make the factory men hold rather than that another should get the goods. Neither is contracting conducive to a high standard of commercial morality, for this season factorymen were deliberately swindled in there contracts as far as it could be done without it becoming too flagrant. Whole sale repudiation would have been inguged in had the contractors not been poure which would wholesome dreal It is to be hoped that arely have made will furnish a salutary lesson. We learn that many factorymen are taking a business view of the matter, and ex pressing their determination to avoid contract ing. When our dealers ljecome enlightene enough to abandon the immoral system of con racts and sufficiently broadminded to let the neighbors buy a few cheese at market pricen, we may
trade."

THHE FARMCERE ADVOCATEE
Nov, 1884


BRITISH MARKETS BY WIRE.

## Cottle and Sheop Slow but Steady

## Luvrrpoou, Oct. 27th, 1884.

 attle.The cattle market was dull and weak, with a alarge gen-
Rral supply. Receipts from Canada and the States lif ht
 Choicesteers-A merican


Offerings of home.bred sheep ample. The mutton
market well supplied. American and Canadian sheep marferingell supplied. American and Canadian sheep
nomiually steady.
Cents \& lb.
 IIterior and rams
not resesprices a
neckoned.)

LIVE STOCK MARKET.



 erb in so. ot sud.
Sheep and lambe-Offerings of sale sheep and lambs
very heayy while agood many chaneed hands, the market
ruled auout stead with min



 ${ }^{2} 460$.
The Glencoe Fair was held on the 4th inst. There was
only andut one half of the usual quant is of stock on the
ground on onround, on account of the fiariners having disposed of
gnusuaily larke quantities to meet their present require

 six weeks
Canada.

## cheese markets

 tories in this section having soll
gistered ; no sales. Cable, 6 Sos.
 hitrex fallas.


Eggs in Winter.
A correspondent of the Tribune Farmer writes as follows in regard to the laying of eggs in winter:- "Give the of gravel. Concoct a pudding for them two or three times a week-not oftener-with the following ingredients : Place an old pail out at one side, and into this throw the meat scraps that are good for nothing else, egg-shells, beans, hominy, bread-crusts, corn parched very brown, coarse mealsiftings, and then when the day arrives to serve up this dish, take the water in which you have parbciled your pork and beans, or other greasy water, stirring into it bran sufficient to thicken well, allowing it to cook a few minutes, pouring the whole over these saved-up scraps. Let it stand a short time warm. Aside from this, give warm drink every morning and you will have an abundance of

## eggs.

The question is often asked, What percent age of cream should a cow sile the circumstances of breed, food, water, age, length of time since calving, all affecting the case to a material extent. Breed is the greatest cause of variation, and even this is considerably modified by individuals of the same breed. As a rule, the better estab ished the breed the more uniform the percentage of cream, and the
greatest divergence exists with regard to greatest divergence exists with regard to
crosses and grades. The average of the two crosses and grades. The average of the two breeds of which the cow is made up is a very imperfect guide, but would have to be resorted to in cases in which practical tests caunot
obtained. The following figures relative to the obtained. The followg the average percecage ill be valuable guide to the farmer or dairyman :- Shorthorn, 6-10 per cent. ; Polled Angus, 6-8; Hereford, 5-6 Devon, 8-9; Ayrshire, 6 8; Canadian, 6-10 Holstein, 10-12 ; Jersey, 25-33. These figures represent the averages by measure; the per centages by weight will be between one and two per cent. less. There is another important question in reference to the percentage of water in milk; but this is much more constant than the percentage of fat. Sour, slushy foods produce watery milk of in ferior quality ; while wholesome, solid foods produce mently more fat and solids The percent of water may vary from $86 \frac{1}{2}$ to $88 \frac{1}{2}$.

The English sparrow must go. American ornithologists have put their foot on it. Its
vi: tues and its vices have been weighed in the balance, and on the whole it has been found wanting. Those who have seen it make havoc amongst injurious insects, and those who have cultivated a relish for dainty bites, still defend cedations and are in the so the poor sparrow must go.

The best way to blend ornament with use is to plant crab apple trees
(See Notices, paqe 346.)

NEW ADVERTISEMENTS ADVERTISING RATES
The regular rate for ordinary advertisements is 256 . per Ine, or \&3 per inch, nonpariel, and special
defnite time and space made on application. Advertisements unaccompanied by specifc instruction Iserted until ordered out, and charged al regular rates. The Farurr's Advocars is the unrivalled advertising
edium to reach the farmers of Canada, exceeding in arculation the combined issues of all the other agricul. ing circular and an estimate.

SPECIAL NOTICE.
Thi Farurr's Advocats refuess hundreds of doliars ofharacter. Nevertheless we cannot undertake to relieve ur readers from the need of exercising common prudence on their own behalf. They must Judge for themselvee whether the goods adversed acki. They will And it a cood rule to be careful about extraordinary bargains, and they can always find safety in doubtrul cases by payig for goods only upon their delivery.
HOLSTRINS FOR SALR

"Barrington" ${ }^{2}$ No. 278 N. H. B.; No. 2103 B. H. B. Out of Ho. 278 N. H. B.; No. 21 H. H. B.; Out of Hamming, win Day.
Record of 99 Pounds in Single Day
$W^{\mathrm{E}}$ of how have in quarantine, at Quebc c, an importation COWS, YEARLINGS AND CALVES and has many prize animals from this year's great
Internationat Exhibition at A Amsterdam, in




 inbrece the present degirable opportunity of securing
hem lefore quarantine expires, as all not then dispoeed All correspondence should be add ressed
27-b B. B. LORD \& SON,
SECOND ANNUAL ONTARIO PROVINCIAL

## FAT STOCK SHOW

City of Guelph on Dec. 17 and 18, 1884
 Cattle to be in the Building on the Evening WM. Whitelaw, President. Guelph
J. NPPERESON ROSS POBTP ATT PINTE Equity Chambers, Toronto.


Nov. 1884
HCOINOMMY The Farmer's Advocate

The Catholic Record
may be had for \$2.25 PER ANNUM.





Garney \& Ware's Standard Scales


A GREAT OFFER

"WEEKLY WITNESS"
acknowledged by its readers,
41,000 , to be
"THE BEST FAMILI PAPFR IN GANADA." esg The Montreal Weekly wilness and the Farmer's Advocate f.
Add ress all orders to 226 WM. WELD, CATARH GAARHL=:
 its atendant diseases. More people have Catarrh than
an y other disease, children as well as adults. $1 t$ is easily
cuisen cuted. Thousinds of cases, soone of
have been entirel cured by using the

GREAT CONSTITUTIONAL CATARRH REMEDY.

T. J. B. Harding, Brockville, ont. Agent for the Dominion and Provinces.




Trees! Trees!! Trees!!! AN IMM ENSEESTOCK: 1,000,000 Renssian Mulberry. $\begin{aligned} & 50,000 \text { Dwarf Juneberry. } \\ & 50,000 \text { Russian Aprio }\end{aligned}$
 $\frac{\text { Bower, Jefferson Co., Nebraska, U. .s. A. }}{\text { CHAMPION }}$
 STUMP Mus SOUN: EXTRACTOR. Warranted to do more work
with the same labor than any other. Feror coircular, priee
eto
manutacturer
S. s. kTMBALL,
222.tt

## GREAT SOUTHWEST

 Cattle Ranches, Grain Farms and SplendidBusiness iocations are Found in THE GREAP MISsoodr pagifle rallwar


 Onlim ratrs ser made on lom what all can anfort to , ind

 ond this contininent
WOOL GROWER will find that Texas is the
and

 want youto
we cail hhiw you MEN can work the entire year at re
LA LAB RINGG eraive wayes. Arkansas and Texas offer you the bext field in the worla, wi no
with
PLEASURE SEEKERRS

 States are here no great inducemento
CALIFURNIA EXCURSIONS

 GEO. OLDS, General Traffic Manayer St. Louis, Moi
H.C. Townsend, Gen Yase. © Ticket Ast, St. Louis
The "Farm and Garden" says:-"It is noadvantage toa breed that sales are made at ex the guide, and any departure from such a rule is sure to end in disappointment, as well as in juring the sales of stocks in the future. Re actions in prices for stock, like that finally a ransactions, are sure values will rest, and the
level found where sooner this takes place the better for our dairy interests. Our bree
no for amusement."
Examine your label and see when your sub scription expires. You will save trouble and often loss by sending your money directsonally We do not request agents to solicit subscrip We do not request agens,
\$fock 2Motes.
The Oxford Christmas Fat Stock Fair will be held at Woodstock on Tuesday, Dec. 16, and prizes amounting to $\$ 350$ will be offered.
Jas. S. Smith, Maple Lodge, Ont., purchased the Cruickshank heifer "Lovely Queen 3rd" at the sale of J. S. Armstrong, Speedside. Her shank, Sittyton, Scotland, and she was sired by "Butterfly Duke."
The second annual Ontario Provincial Fat Stock Show will be held in the City of Guelph Dec. 17 and 18. This being the largest and most successful fat stock show in the Dominion, should be extensively patronized. See adv.
Messrs. B. B. Lord \& Son, Sinclairville,N. Y. report the importation of 60 head of hoisteina
(see advertisement), consisting of cows, year (see advertisement), consisting of cows, year-
lings, and calves, many of which won prizes at the International Exhibition at Amsterdam Parties wishing to make purchases from this herd, can do so by seizing the opportunity while the animals are in quarantine at Quebec,
Messrs. Wm. Justin \& Sons, of Streetaville, have just completed the following sales:-S. S DeArman, Venango Co., Penn., U. S. A., one yearling ram; Messrs. Geary Bros., London, one yearling ram; Mr T. C. Patteson, East wood, Ont., one ram lamb; Mr. Jas. Glennie, Guelph, one ram lamb; Mr. W. H. Stabb, yearling ram from the well known flook of Geary Bros.
Mr. G. F. Frankland has been in England investigating the condition of the Canadian cattle trade. On his return he was interviewed by a reporter who states that he pointed out the changes that have taken place in the trade. The shipper in the early times was under much nore expense than he is now. He had to pay from has to $£ 7$ freight on each cars to $£ 3$. Beides this he had to provide wooden stalls at is own expense, and these were very poor acmodation, at best. Now the companies rovide iron stalls. Although the shippers have all these advantages at the present time, yet the trade is now carried on at a loss, while under the old state of affairs, there was money in the business. Caanadian shippers, says $\mathrm{Mr}^{2}$ Frankland, lost last year over two milion dol lars. Yet it was claimed by those who what to get Wyoming cattle through ware good at the markets in the the demand now present. The fact Country very little exceeded the supply. There was, first, the supply o the suppl mutton from Australia. A large number of cattle were also received from thow ports of the European continent which had clean bills of health. With these facts there was coupled the almost entire absence of whit among the cattle of Great Britain, eluce the causes had combined to indicated that either price of meat, Thesling off in the number of catthere must bem Canada or a lowering of the tle shipped from Catian catte.
(Continued on page 248.)
 agricultural fair lands in the City of London out of the hanas of the farmers, particularly ${ }^{\text {so }}$ Board was not conducted in as open and proper a manner as it should have been.
L. D. Sawyer \& co. make a specialty of fit ting their threshers to thresh and clean clover seed, and as a grain thresher and grain saver their threshers have as high a reputation as any; and in regard to honorable and straightforward dealing you may depend on them.
Mr. G. White, whose advertisement appears in this issue, has had unprecedented success in disposing of his agricultural engines in the
vicinity where they are made. They are giving vicinity, where they are made. They are giving
great satisfaction, and are forcing their own great satisfaction, and are forcing their own
way into other localities, where they are much approved of. Mr. White is a straightforward person to deal with.
-
The Business Cocivege an at little pamphlet from the Business College at Belleville, Ont., in which we see that they draw pupils from New
York and many other States and Territories York and many other states and Territories,
from Bermuda and the West Indies, and from all parts of Canada. This Collegese has a high all parts of Canada. This College has a high
reputation. Belleville is situated at the head reputation. Belleville is situated at the head
of the Bay of Quinte and is one of the most pleasing, healthful, peaceful and prosperous parts of Canada. We know of no more beautiful and charming trip than from Belleville to the Thousand Islands. Those desirous of hav ing their children educated morally, physically and mentally, in a healthy locality, should send to the College for one of their circulars.

When reeently in Ayr, we were much surprised at the new mashine shops erected by when fully complete will exceed in beauty and and convenience combinad any mathe sho and convenience combined any machine shops
in this Dominion. Mr. Watson's old work shops are taken by the American Plow Company. The farmers in this locality are large shareholders in this company's stock. The company are turning out excellent plows; they have gained the principal prizes at the only plowing match we have heard of having taken place near here this season, namely, in the County of Oxford. We wish all new agricul tural enterprises success. Send for their catalogne.

Fhetrs for the Woklo's Exposition,-At a meeting of the directors of Fruit Growers Association, atety held at Barrie, it was re
solved that fruits from the different electora districts of Onturio should be represented at the coming Exposition to be held in New Orleans. Mr. II. Saunders, President of the As. sociation, represents district No. 11, which includes Perth, Midillesex, and the city of Loonlon, and is actively engaged in collecting all the cifferent varieties procurable, and is deter-
mined to tring fresh honors upon the Association. The fruits will be shipped in the early part of January.

See Stock Notes, page 348.


##  FARMER'S ADVOCATE

 AND
## FIOMH MAAGAZIINH.

The Leading and only Independent Agricultural Paper Published in
The Best Authority on all Agricultural Subjects.
The Advocate has a Larger Circulation amongst our Leading Farmers than all the other Agricultural Papers in Canada combined.
To every Practical Farmer it is worth ten times its cost. No Farmer should be without it

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W. WELD, Edit رr and Proprietor.
its contributors in the departments of
THE FARM, STOCK, THE DAIRY, THE GARDEN d ORCHARD, POULTRY, VETERINARY, APIARY, THE MARKETS,

THE FAMILY CIRCLE, dC., de.,
are the best specialists that can be procured.
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Useful Information, Pleasing Stories, Puzzles, etc., Is eagerly looked for by all members of the Family Circle, and this Department alone is解th more than the subscription price.
THE BEST FAMILY PAPER IN CANADA.

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[^1]
## The Ontario Matual Lite Assurance Co's

HEAD OFFICE, WATERLOO, ONT.
Domimion Deposit - - \#10お,000. THE ONLY PURELY MUTUAL LIFE COMPANY IN CÅNADA. Total Number of Policies in Force, Dec. 31, 1883, 5,241.
N Covering Assurance to the Amount of $\$ 6,5 \% 2, \% 19 . \% \mathrm{y}$
Net Reserve to Credit of Policy-holders, \$482,1\%\%.4\%.
Surplus, ${ }^{\text {W. }} 43,761.95$. The rapid growth of the Company may be sen from the fact, that in 1870 , the first year of its business, the tolu Ever man who owes a mortyage on his property should have his life assured in "HHE ONTARIO" for at least
the amount he owes; his family is then secure in their property even should death cut off the head of the household. Special Favorable Terms given for such assurances. "THE ONTARIO" invests nearly all its reserve funds in first mortgages on improved farms, interest anuualy at
current rates, and expenses very love. Permission granted to pay off any part of the principal at the end of the third Farnuers requiring loans will do well to correspond with the Manager direct, who will quote best terms and make
acilities eass to negotiate the loan. When writing give the number of acres and description of property, and tate ite
I. E. Bowman, President. W. Hendry, Manager. W. H. RIDDELLL, Seoretary.

SHE LINE SELECTED BY THE O. S. GOV'T
TO CARRY THE FAST MAIL
Burlington Route.


GOING WEST. ONLY LITE RUNHING TWO THRODGB CHICAGO, PEORIA \&ST.LOUIS,
Turough the Heart to thit continnent by was DENVER

SAN Francisco,
$\qquad$ KANSAS CITY,
TOURISTS AND HEALTH-SEEKERS



CITY OF MEXICO
angent polus In the Mexican Re HOME-SEEKERS
Should alo remember shat thls Ins. Read alract to
 Finest Eaulapped In antilr rond in the World for Throug Tickesty lititis In in to sale eat all Rall



WESLEYAN
LADIES' COLLEGE HAMILTON, CANADA.
The oldest and the largest Ladies' College in the Do
minion. Has over 180 graduates. Fauculty, 5 g yentiemen
 at any time. Addrest the Principal,
M. BURNS
MENTON THIS PAPER.
A.

ONTARIO LADIES' COLLEGE Whitby, Ont.
Affords an adranced collegiate course with the privilege
of taking protessional or University examinations


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Ontario Business College
BELLEVILLE, ONT.
Students in attendance from all parts of the :Continent
and the West Indies
Course most thorough.
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and the West Indies. Course most horougg
low as in other first-class colleges.
Board only $\$ 2.75$ a Week
Entrance at any time. roulars, «2., adaress \& JOHNSON, Belleville, ont.

HAMILTON COMMERCIAL COLLEGE.

Corner King and James Streets. (Over Foderal Bank.)
-
HHIS institution offers speoial terms and ad $\mathrm{T}_{\text {vantages to }}^{\text {His instriv }}$
young aentlemen and ladies desiring a thorough, practical Butsinees Eduation. Its course of instruction embraces all the branohee necoseary to completo commeroial training, and
eecond to none. Its teachers are well qualififed tor
 What wonk be properly attended to. Everything con
nected with the sehool a the newest and best. N nected with the school is the newost and
old system has any place in its ourriculum. The location of the College is in the bost spot in th rooms are large, airy and newly furnished throughoui. It will pay to call before applying elsowhero Send for dircular.
M. L. RATTRAY


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 send for catalogne and Price ulut. ex . "CIEAEREI I" Until further notice is given, A. B. POWELL \& Co.
 Pure Wool Grey Chambly Flannols Canadian Wool Bod Blanketa, ail aid per yard.



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presed without delay.
Kid Gilo ves in every shade and make. Prices from 25 c . presed without (lay.,
Ko 83.00 love in ever pair. Don't orget our address, Write for what information
you desire in the way of Dry Coods, \&c. A.B.POW ELL \& \& C 4 Dundan stroet, ${ }_{288 \text {-cx }}$ LONDON, ONT.

CANADA BUSINESS COLLEGE
HIAMIIALCI,
Affords the best facilities for obtaining a complete business eadinion. Course of instruction impro
uil teachers. The most magififient college rooms in the Doninion. A large 40 page Catalogue, specimens of penmanship and full particulars sent on apppicat Principal.



## STOCK NOTES.

(Vontinued frcm page 348.)
Mr. T. G. Nankin, Merivale, Ont., has ad ded to his choice herd of Ayrshires, two cows, Annie Laurie and Susie Jane, purchased fro
Mr. Joseph Yuill, of Carleton Place.

Messrs. Foster \& Sotham, of Flint, Michigan have purchased from the estate of the late Mr Bridges of Barrie, Ont., three imported Here
ford cows, and two bull ford cows, and two bull calves.
The 4 -year-old ball, Chivalry, winner of two first prizes and two silver medals at the Indus age, imported and owned by Messrs. Hay \& Patton, was purchased by Messrs. Mossom, Boyd \& Co., of Big Island Stock Farm, Bobcay geon.

Mr. Jas. I. Davidson, Balsam, Ont., has made one of the largest purchases from the famous sittyton herd ever made for importaing to Canada, no fewer than 40 animals hav ing been despatched in one shipment. One other half females, three being two and the and the remaining 19 heifer calves, The embraced 16 different strains_of blood.

Mr. James Glennie, (iourock P. O., has re cently made the following sales of Shropshiredown sheep: To Wm. Barbour, Welesley Tp, imported 2 -shear ram ; D. G. Haumer, Brantord, 1 pair imported ewes; J. Colter, Pusinch, I pair imported ewes; Snell \& Sons, Clinton, 1 ram (lst prize at Western Fair), and 3 ewe lambs : I 1 we lambs; H. Bell, Erin, ram and, T. Herrtage, Brussels, Ont., Hartshorn, Manitoba, 3 ram lambs. Justin : Son, Streetsville, 1 ewe lamb. Mr. (Ilennie won six prizes at the late Western Fair for his Shropshires, and has a number of valuable animals for sale. See his advertisement.
-
Scours in calves are apt to occur in the fall, but the attacks are usually not so severe as in the spring. The cause is chiefly due to violent remove the canse ; but in severe cases ine is to immediate relief is the object, the , in which dose will be found effective: First give the calf one-half pint linseed oil and a tablespoon full of turpentine as a drench ; then give three times a day two tablespoonfulls of the follow. ing mixture: Tincture of opium, two ounces tincture of cardamonus, two ounces; carbonate of soda, two ounces; water one-half pint.
No one who has been accustomed to handling horses can help noticing the social inclination true among young things more especially is this best when in pasture or in a stable with others and breeders oftel find it to their advantage to have several in a paddock together. Again, haturally become more snappish and disagree naturally become more snappish and disagree with other horses. This is the observation of many thinking horsemen, and no doubt there is something in it.

## FAY CRAPES <br> BEST STOGIE IN THE WORED 

* The Best Test of a Plow is the Work it Does in the Field!

At the Provincial Plowing Match held on the Burtch Farm, near Woodstock, on the 28rd Oct., 1884, the following Prizes were awarded
to Plowmen working with Plows made by The AYR AMERICAN PIOW

COMPANY, Limited Dumfries, with a Buford Sulky, First PLO WV $\boldsymbol{S}$ JOINTPIR PIO WVE,
Robert Cranston, jr., Dumfries, with a sin Plow First Prize PIO WV:s

## Plow, Third Prize Fourth Prize.

The "Buford" is undoubtedly the best made sulky Plow in Canada drive a span of horses can handle it ario farmers. Any boy who can
rmer who has tried one will use has proved a wonderful success. Every For Catalogues and Prices apply
THE AYR AMERICAN PLOW COMPANY (Limited) john watson, President. AYR, ONTARIO
J. CAlers, Secretary.


OIDS' PATMENT 1, 2 AND 3 HORSE POW leading Threshing Machine in the Dominion. will




## --TETE

BATIN 路UGGOIN


IS THE FARMER'S FAVORITE.
Because it is the lightest running wagon made
Because it is made in the most
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