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AND FARM JOURNAL. witr path is THE CANADIAN FARMER \& GRANCE RECORD

Toronto, December, 1885.
$\$ 1.00$ per annum, in advance.



# Btural Samdiat and Sarm dournal, 

 THE CANADIAN FARMER AND GRANGE RECORD.YoL vinl, Mo. 12.
VoL. IT., No. 12-New Series.

Toronto, December, 1885.
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## RURAL NOTES.

One of the frequent oauses of abortion in cows, mares and ewes is the use of ice-cold wator.

An Ontario farmer, John Ratherford, of Roseville, swept the board with his exhibit of sheep at the Chioago Fat Stock Show. With twenty-five head he took twenty-four prizes, the cash value of which was $\$ 500$.

We shall have the Fist Stock Show in a fem daye. This onow is now becoming an institution of the Province, and it is fortunate that we have a sufficient number of enterprising breeders and feeders to mase it thoronghly succeseful.

To milk a cow before the calf comes is to distarb the natural habit, and bad consequences may follow. When it is necessary to relieve the cow only a very little should be drawn, and the secretion uf milk should be diecouraged by the use of dry food.

Tres better way to salt stook is to buy a few lumps of rock salt, put them under cover and sllow stock to them 88 they wish. A dollar's worth of rock placed under cover will last as long as a barral of salt given in the usual way, with the advantage of the stock getting salt as they need it.
Sous potato growers who have been investigating the sabject of rot for the parpose of finding a remedj, incline to the balief that gathering and burning or burging deeply in the ground all the diseased vines and tubers will have a tendency to oheck its ravages, by preverting the production of spores, which tales place when the tops and diseased potatoes are left to decay upon the ground.

Hemocr is less expensive than pine lumber, and for grain barns it has the decided advantage in being less liable to be eaten by rats and mice. The splinters in hemlock boards are very anneying to vermin in making their way through, while a pine board is scarcely any obstacle to their progress. Hemlook plank will last tolerably well as flooring for horse stables, and when it decays the expense is not large for procuring more.
Caress and butter makers were in a disconsolate mood owing to the low prices for thoir products which prevailed during the greater part of the season; but a marked improvement trok place toward the close, and their hopes have revived again. One thing they can depend on, and that is that the demand for cheese and butter will continue for a few sears yet to come; also that the best artucle will always bung the best price.
3 Hasx Western farmers find the expense of keeping up fences entirely too groat in these timos, and are substituting hedges in their place; bat the hedge business may be casily overdone. It requires a great deal of labour in proning, and with its roots on either side occapies as mooh Jend as a crooked 1 ail fonce. It is also a difficult fonce to get rid 9 i, and should only be planted thore it is cectain that a permanent fence will be seeded.

Mans farmers are prone to neglect making ditohes where they arc'needed, and some of them fail to give them proper sttention. The open ditohes become clogged up snd filled with rubbish every little whil, and should be carefully cleaned out at least twice a year-in the spring and again in the fall. See that the matter is attended to this fall. It will not pay to neglect this, and thus allow the drains to fill up and force the water over the land to destroy orops, etc." "A stitoh in time " remember.

Tere black-faced sheep of the Highlands of Scotland have been tried on the prairies of Illinois, and have tarned ont a complete failure there. Nothing else could have been expected as a result of suoh experiment, and we are aurprised that any man in his wits should have ventared to make it. In Haliburton, Muskola, Parry Sound or Nipissing, in our own Province, this breed might be tried with some confidence of success, for the district of country is not unlike its proper habitat. And we may add that if this experiment were successfally made it would be a fortunate one for the farmers; for the matton of the Highland sheep is the sweetest that reaches the London markets, and it also fetches the highest price.

Tre Board of Agrivalture for the State of Illinois is anthority for the statement that a large number of so-called creameries in that country " use the product of the beef and" the hog in the manafacture of a product which they sell npon the market as and for genuino batter." The National Batter, Cheese and Egg Association are calling for the proofs of this bold allegation, and the question is not settled yet; but report says that some of the principal manufecturers of oleobatters in Chicago are in a position to produce the proofs. In the interest of consumers it is of great importance that the Illinois Board shenald meet the challenge promptiy, as otherwise the cresmeries of the Westarn States mast rest under s stigms.
The manafactare of sugar from the sorgham cane has received a new impetua as the result of recent experiments in the chemical division of the United Ststes Dopartment of Agricultare. One of the new processes consists in cotting the canes into chips and then extracting the sugar by means of warm water. Another is known as the process of carbonstion in clarifying the jaice, which is found to sield results in every respect superior to those furnished by the old methods, and also saves the time and labour of scumming. An idea of the importance of the first of these discoveries may be formed whon it is stated that by the application of it the sugar produced in the country can bo increased fully thirty per cent. without increasing the area under cultivation.

In the performance of the daties of his office, in its varions divisions, the Cnited States Commissioner of Agrioultare has now a working force of nearly four handred persons-specialists, clerks, laboarers and other employes. There are altogether eight divisions, each one of wibich is directed by a responsiblo head, namely : (1) the seed division, ( 2 ) the ontomological divinion, (8) the hortiouftaral, porealogional and
propagating division, (4) the botanioal diviaion, (5) the microbcopioal division, (6) the statistical division, (7) the forestry division, and (8) the veterinary division. In the statistical division sixty-four clerks are employed under the statistician, and over 7,000 persons act as regular correspondents throughout the Union, being an average of four for each county.

It is possible that in the earnest desirs to aid the Canadian Pacific Rallway in proonring traffio, our Government may make a serious mistake, in so far as the interests of farmers aro concerned. A fer weeks ago it eppears that an arrangement was entered into for sending cattle from the Dakota and Montana ranches to the Chicago markets by way of the Canadian Pacifio aud the St. Paal and Manitoba lines-the cattlo being driven from the ranches northward to one of theC. P. R. stations. Now it is well known thatthere are some herds in the Western States infectad with pleuro-pneumonia, and any day it inaybe oarried into our North- West. Let this occur, and Canada will be scheduled in Great Britain as well As the United States. The risk is obviousy and $p 6$ trast that the Department of Agricalture at Oftame will not fail to consider it.

Tias cattle growers of the United States metin. convention in Chicago two weeks ago, and among the subjects they discussed was the restriction placed on the American cattle trade by foreign countries. It was shown that, while Canads's exports to Grest Britain lave been increasing, those of the United States have been decreasing; and the rearon is apparent. American cattle have to be slanghtered at the point of debarkation in Great Britain, while Canadian zattle can bs sent to any interior market of the country-rigid inspection of cargoes arriving from both countries showing that in the case of Amarican cattle disease was found to exist, and in the case of Cansdian cattle there was an entire absence of disease. A clean bill of health is what our neighbours wrnt to establish, and cattle-men are organizing to accomplish that object. They thoroughly appreciate the masim that "prevention is better than care," and heretofore Canada has acted on that maxim.

Acorss, chestnate, oilnats and walnuts should be planted where the trees from them are to grow. If the ground is covered fith a grass sod, cut out a round piece, say two feet in diameter, dig the earth in the hole, and then replace the sod, grass side down. On this place three or foar of the acorns or nute, cover them with three or four inches of leaves, and on the leares place a large flat stone, or a piece of board, to keep them from the ravages of mice or squirrela. Early next spring, when the nute cracked by the frost have began to sproat, remove the rock or board, and as the tree plants appear keep them free from reeds. Tho first summer they shcald be hoed and malched, the secoud gear thin out to two planta, snd the third year only leaso one. In this why you can have nuts in twelve or fifteen : ears after planting, perhaps earlier. I am aware that narserymon say thero is no trouble in transplenting pak or nat trees, bat $I$ don't believe that ome ort ot tan mald by itiom liven

FARM AND FIELD.

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For Tas roduc canadias.
WALKS AND TALKS AMONG THE FARMERS.—NO. XIN.
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Thanksgiving Day has come and gone. The religious observance of it is not very general, espooielly in tho country. In towns and cities, it is mainly kept as a holiday. Union services are becoming common, chielly, I think, because only a small minority of each congregation is disposed to attend public worship on that day. It is to be lamented that there is not a more genoral recognition of tho obligation which rests on us all to aoknowledge the care and bounty of Providence, byattending at least one public service on the day specially set apart for the expression of individual and national gratitude to Almighty God for His many blessinge. Of course, we can be thankful every day, and wo ought to be, for there is abundant reason why we should. Praise also forms a prominent part of Sabbath worship. Bat ingratitade is one of the besetting sins of humanity, and a day once a year set apart for .thankegiving, if proparly kept, cannot but aid in the correction of this evil tendency. I was enquiring of a prominent member of a country congregation why there was no service ir his charch on Thanksgiving Day. He replied that the weather had been very wet and unfavourable for doing fall work, espeoially getting in root crops, and it was thought, if the day was fine, people Hould be too busy in the fields to attond meeting. This saggests whether our Thankegiving Day is not appointed too early for general convenience. The Americans havo thoirs in the end of November. Oars occurs in the beginning of the month. It was a few days later than usual this year, owing to a postponement. The first days of November are not a leisure-time with farmers. The last of the month would euit his large olass of the sommanity much better. Indeed, I do not see why the same day should not be observed throughout Canada and the United States. It would be 8 pleasing spectacle to behold the entire North American Continent engaged simultaneously in the discharge of this becoming duty.

I rave been reading over again a very useful and suggestive little book, entitled "Farm Tall," which was kindly sent me by the author, Mr. George E. Brackett, of Bellast, Maine, in the spring of 1882. I gave it a brief notice in the April number of Tare Rusal Canadian for that year. It claims to be the only bools upon farmjag subjects ever written in every-day-talk style. I am not sure that this claim is well founded. "The Marvels'" entertaining book, "My Farm of Eagemood," contains a large proportion of colloquial matter. Anyway, Mr. Brackett's volome fally answers to its title, and is a very entertaining and instructive work. I have been so much interested in a cinapter entitled, "The - Ologies," that I think I will transcribe it To abbreviate it would spoil it, and I am sure it will well repas perasal in foll.

Jerry called into Smini's the other evening, and found him in quite a state of excitement, consequent upon reading an article in an agricultural magazine he had lent him. In fact, Smith had "got his dander up" in regard to the doctrines and language contained in said article, and was willing to own it. Eo was spattering away about " hambugs," "nonsense," "'ologies," ets.
"What's the matter with the 'ologies, Smith ?"
"I don't believo in 'em, and never did. What's the use of so much ' flammy-didale?' Plain common sense is enough for any farmer's paper. I'm a practical farmer, none o' your
soience about me; and your 'ologies may go to grabs for all mo. I've no use for 'em."
" Wait a bit. Don't get oxcited. Let's talls the thing over a little. Nothing like keeping cool to enable a fellow to understand the gist of the matter. Now, I believe yo's are as much intereated in the 'ologios, as you oall them, as any. body."
"No, sir, I'm dead set agin 'em."
"Let's argue the point a little."
"Wall, arger away; but just try an applo, to clear your throat.'
"Thank you, I will. Fine specimens these, What variety are they?"
"Spitsenbarghs; sume of my own graftin."
"Sure thoy're Spitsenburghe?"
${ }^{\text {is }}$ Sartin. I took considerable pains to study 'bout apples, and I guess there ain't many kinds raised hereabouts but I can tell their names as quick as I put my eyes on 'em."
"I've no doubt of it; and your knowledge on the subject proves that you are not only interested in, but pretty well acquainted with one of the 'ologies.'
"How do you make that out?"
"Why, Pomology is the science that treats of fruit, and you have shown that jou know a 'thing or two' about apples; so there's one of the 'ologies."
"Well, you've got me there."
"I think I have. Hand me over that wormy apple. Do you know what made the hole in it?"
"A worm, of cuurse, an apple-worm."
"Very well; but do you know the history, habits, name, etc., of this worm?"
"No: though they sey, the worm comes from a miller."
"Yes, a little moth or miller lays her egge in the calys, or blossom end of the young apple, just as it is beginning to grow, and from that egg the worm batches which tronbles the apple so badly. After this worm grows to its full size, it changes to a chrysalis, in which form it remains through the winter, and from which the moth comes the next spring, and lays its eggs again for some more apple worms. The scientific name of this insect is called the Corpccapsa pomonella, and its common name is the apple-worm."
"But I don't see where the 'ology comes in."
"Yes, you can; for the ecience that treats of insects is termed Entomology. So there's another 'ology in which you. in common with all other farmers, are deeply interested."
"You're doing well ; go on."
"Well, let's go into the subject a little deeper. What's the soil of your farm?"
"Hard and rocky, mostly; some sandy loam in the low groand and flats."
"Any sand or clay?"
"Yes; there's a eand bed, and quite a olay bank over in the corner. There was a 'brickkiln' down there a good many years ago."
"Any large stone?"
"Some bonlders-granite; and the ledges crop ont a little over in one corner of the pasture lot:"
"Very well; there's another 'ology-Geology, Fhich treats of the formation and structure of the earth, and of what it is composed."
", ell, I'll gire up. Looks a little stormy out, don't it?"
"What makes you think so ?"
"Becanse there's heary rain clouds rollin' in from the water, and the wind is 'out' strong."
"That's another 'ology, Mcteorology, which is the science that trests of the weather and the conditior of the atmosphere; a science with which every iarmer is more or less practically acquainted. These are only a few of the 'ologies in which every farmer is directly interested, and the prinoiples of which aro so frequemily brought into his every-
day practice. It's no use for you, Smith, to be down on the 'ologies."
"Can you name another?"
"Certainly, there's Physiology, both animal and vegetable; the former ireating of overy thing that relates to animals, and the latter of plants. So you see, it is absolutaly necessary for a farmer to know something of this 'ology. The sciences are intimately connected with the farmer's operations at every step of his progress, and he is not a wise man who persistontly opposes whatever seems to him to smack of science, or is comprohended under the heading of an 'ology."

The race of anti-'ology farmers, though by no means extinct, is becoming "small by degrees and beautifully less," and a generation of more intelligent tillers of the soil is rapidly coming to the front. It is well that this is so, for our lands, impprerished by anti-'ology treatment, can only be brought up by a persevering application of scientific princuples in the way of manaring, rotetion of crops, stock-feeding and thorough onlture. It is encouraging to any one who has watched the history of agricultare during the past half century to note the signs of progress on every hand. These are numerous, and among them, one of the most conspionous and significant is the large and increasing number of those who not only read but write for agricultural periodicals, and in competion for prize esays. The necessities of farming will compel a higher standard of intellectual attainment in order to succeed. Competition gradually becomes more close, and as the different parts of the earth are brought pearer to one another by-improved modes of communication, the markets will put supply and demand into such proximity with one auotiner as to call for more forethought and better managemant as the years roll on. Yes, farmers must study the ologies with increasing diligence.

I Ass glad to see that the Ontario Government is taking steps to multiply farmers' institutes. These furnish a most valuable school for those Who cannot go to an agricultural collego, or bestow much time upon study. They are especially fitted to stir up young farmers to self-improvement. It is to be hoped that the efforts being made will be encouraged in all parts of the country, and that the institutes, which must necessarily be infrequent, will be supplemented by farmers' clubs, Granges, or any permanent local organization that is preferred. All winter long there should be s mouthly, or still better, a fortnightly meeting in every neighbourhood, for the discussion of practical subjects cọnnected with farming. There is no lack of talent, if it were only brought out, but organization of some sort is needed. Beside the benefit of these meotings in the direct promotion of agsicnitural improvement, they are of great value in training "the young idea," not only how to "shoot," bat how to express itself. Such meetings are the best possible training school for the pablic speakers of the futare in manicipal councils, politios and other conventions, and even in Parliament.
W. F. 0.

Tus common lilac, if kept headed down for $s$ few jears, makes a dense hedge, and behind a low stone wall makes an excellent fence. There are many other shrubs, such as the snow-berry, the buckthorn, the elder, the stravberry tree and the barberry, which make fine soreens for the concealment of unsightly objects about one's premises. Climbing shrubs, such as the prairie rose, the clemstis, the Virginis creeper, and the decidnous ivy, look well on porches and arboars, bat exhibit their graceful foliage to the best advantage on trees, Whioh are their natocral supporto

## For Tris ronar canadus.

A PLAIN FARMER'S IDEA ON TURNIP growing.

Ies, I am only a practioal farwer. : don't know much about theory. My knowledgo has been gaiued frum practioe, hard ${ }_{1}$ raotice, though I don't dislike theory. So much do I namire it that I sent my son to the Agricultural Collego at Guelph, and he has come back chuck-full of theory; yes, cluck-full of it, sir, and now he is gotting a littlo practice. On casting our eyos toward the barn-yard we observed the aforesaid theorist indulging in the healthy pracrice of load ing manure. Yes, I grow a good many turnip.s. Practice has taught mo that for winter feediug stock they are about the best thing. My son saye thes are nearly all water, sincty per ceut., I think he says. By the way, I see that some of the writers in your juarnal are durn on turnip growing because they cuntain so much water, saying it wouid bo easier to food dry food and then fill the avimals with water. That may be all very true, but the difficulty is to got them to fill up with water. Stuff them with chopped grain, but yet they will not drink heavily. You might just as well condemu feeding on grass, (which, to my mind, is the natural food of ca!tle) becauso I bevo read that the richest grasses are nearly all composed of water, and if we come down to the fine roint, what is there that does not contain a great proportion of water? Flesh is tissue and water, but, as I said before, not being a theorist, I must conteni myself with what I picked up from practice, from which I found that taraip growing is must prufitable, and the farmer who dou't plant theon don't treat his land fuirly.
Tell yon what it is, une-ialf the farmers are ready to conderma turuip growing becanse of the trouble. Nuw, jull Lave been pretty much all over this eection, sir, and this is the part of Canada that grows the most turmps. Tell me, do you find any cleaver farras, the land in better tilth, or where they raise larger cruts than we do aronnd here? Not much, I guess. To grow turnips the land bas to be thoroughly worked, not merely scratched over, theu manared, aud then, hocing keeps down weeds. By this meaus the land gets fair play. If a man grows turnips he must do some. thing with them, so he bas to beep stock to eat them, which of course make manure, without a sapply of which no farm can be carried on successfully. The turnip tops are mostly eaten on the field or ploughed in, so the land is not robbed of much except the bulbs themselves. Land thus treated is ready for any crop rithout much fear of failure, excepting from climatic causes. Then, in feeding stock, practice has taught me that oattle prefer turnips to any other kind of food. Yes, sir, last winter ny son persuaded me to get a pulper, and we triea an experiment. We put up six steers, and fed them nothing but pulped turnips mixed with chopped stram. What was the resalt? In the spring a dealer camo along, and after looking at the cattle said they were the finest and best fed steers he had seen for some time, and that we had not spared the grain. I could scarcely keep from laughing, and with diff. culty persuaded him to believe that they had not touched grain for months. What do you thank of that sir, for turnips? I grow a few mangels for the milch cows, but they would sooner eat turnpps.
I would like to tell yon a hittle instance of what happened at a meeting of a farmero' institute. The learned professors delivered lengthy lectures on what different fcods contained. They were especially hard on tarnip growing. After the lectures an old farmer arose and said that ne dia not for a moment dispute what had been stated, but woald any of the learned gentlemon explain what wis thare in turnipe that made outto no $^{0}$
fond of thom ns to lenve othor food and partake of turnips, and how was it that cattle thrived so on them ? No reply camo. To my mind they aro the nearest approach to grass that wo can get during the long winter months when there is no gaasb, and that's why cattlo like thom. Yeb, sir, I shall try to give my stock plenty of grass in summer and roots in winter, though they may do all water.

Rusticus.

## FARMERS AND BRAIN POUER.

Tho Scottish Agricultural Gazette, one of our esteemod exchauges, published at Edinburgh, Scotland, expresses idens broad onough to go around the world in the following. It says:
Some peoplo imagine that farming requires very littlo outlay of brain power; but this is a great mistake. "I honestly believe," said one, who is himself a succeesful agriculturist, "that the farmer who will work his brains till noon, and his hands the balance of the day, will outstrip him who rises at five, and toils till nine at night." Our most successful farmers are not those who work hardest at manaal labour; thos worl, nevertheless, with all their energies. None aro exempt from labour; but iu all it is not equally well applied and directed. If we tako any two men, physically equal, the one will accomplish most who excels in brain power. Therefore, let that small enclosure within his orru skall be cultivated as assiduonsly and as carefully by tho farmer as is his choicest crop. Whatever farming may have been in the past, the time has con:e when the bighest iutelligence is demauded as a vecessary qualification on the part of the agriculturist.

Book-farming, howevor, is decried, and "farmers are not a reading class." We, on our part, neitber underrate the practical kwowledge, nor overrate the importance of the scientific study of farming. The one is needful to the other, and science 18 futile if it does not help practice to do its work better aud cheaper. But there is one great want in most of our farm-houses, and that is the almost entire absence of agricultural literature, both in book aud periodical form. The volumes one most expects to see on a farmer's table are generally couspicuous by their absence; and, will it be believed, there is many a farmer who does nut take in an agricaltural newspaper: Buys and girls grow up on the farm, and spend those years which will 80 much influenco their lives without ever once being led to realize the momentousness of what is before them. They grow up, too, without a tasto for reading, and so miss a never-failing scurce of happiness, not to syeak of mental culture ...d refinement. For all this, the want of suitable books and papers on the farm-house table is to be llamed. The bodily toilers come in thoroughly wearied, and often with a longing for relaration of some hind; but there is no paper, aud no interesting voluwe that they can turn to, and so they live within themselves, as it were, and, in too many cases, sleep away their existence.

But just let the soung farmer thinli for a moment of tho forces, the properties, principles, influences, the laws-developed aud undeveloped -with which he must como in coutact and understand if he would succeed. So far from being less dependert apon the arts aud sciences than those engaged in other occupations, the farmer stands in need of a far wider range of hnuspledge than is requisito in almost any other business; and farming need not prove the unvaryingroundand monotonous life itis often said to be, for overy operation on the farm is an incentive to inquiry and stimulant to thought. Men of one ziea cannot succeed in farming, and those engaged in it, the young eapecially, should lose no opportuaity of adding to their present stock of ideas by reading, by investigating for themselves, and through intercourse with others.

If iarmers were to read more, they would also write more to farm papers. Erery one shonla be randy to exchange ideas with others. This does good all nomad.

## YOUSEHOLD HINTS.

The cloak of medium longth has lad its day, they must either bo vory long or very short. For these, dull red cloth is coming in favour.

No moro sensible and tasty outsido wrap oan bu made for chaldren than the Nowmarket. For fabrics plush, homespun and astrachan are used.
An elegant cover for a emall table may be made of a copper coloured plush s'arf, with silk tassels of same colour, run through orescents at the edge.

A curtain for the lomer sash of a window, made up plain of cotton scrym, painted in bold desigus of morning glories, nasturtiums or other showy flowers, is very effective and pretty.

The newest mantles and coats are made without plaits in the back. Green billiard oloth very similar to that used on billiard tables is a novelty for tailur jackets, to be worn by young ladies with black, greeu and brown dressee.

Can all the good cooking apples that are imperfect, and will not keep, for winter uso. It is a great convenionce to have the $n$ all ready to put on the table. As fast as your jars are emptied, fill them again when you stew apples for dinnor.

Sausage meat is much better chopped than ground, but in either case should be made very fine. Use the finest dairy salt and pure pepper. Put one pound of salt, six ounces of black pepper, and a teaspoonful of red pepper, to overy fifty-five pounds of meat. Sage, ured in moderation, is a great improvement to the seasoning.
A good way to make use of old red table cloths which are no longer suitable for the table, is to cut them in good-sized pieces and keep them in a draver in the pantry, and on baking-days bring them forth to lay the warm bread or cookies or cakes upon. They may take the place of towels in many other ways and prove a substantial economy.

This makes good corn bread : Beat tro eggs rers hight, mix alternately with them one pint of sour milk, or buttermill, and one pint of Indian meal. Molt; a teaspoonful of butter and add. Dissolve une teaspoonful of sode in a portion of the milk, a lid edd the last thing. Beat hard, and bake in a pas as a quick oven for twenty minates, or if preferred in small cakes on a griddle.
In almost all cases of poisoning the following remedy will prove sufficient: Mix together a heaping teaspoonful of table salt and as much ground mustard, in a teacup of tepid water. This will act as an immediate emetic; but lest there be auy particle of poison left in the stomach, swallow, directly after the vomiting, the white of an egg or several spoonfuls of street oil, butter, or lard.

Anotaer pretty cushion-covor is made by cutting a suitable figure out of ribbon or brocade sill; apply this to a square of satin, and outline the figure with gilt cord or very fine braid. Thick lace covers over crimson silk are pretty and easily made ; a bow at one corver improves it; fancifal pen-wipers are mane of gay-coloured flannels with a bird's head in the centre. If you hare had hats trimmed with birds, and they are somewhat rufled, you can atilize them in this way.

A correspondent says: Tako one cupfol of oatmeal and five cupfuls of pater; stir soveral times during the day, let it stand over night and then poar off all the water and the coarser part of the meal. Strain tha ugh a fine sicvo and add bay ram to it antul it is of the consistency of cream, Bathe the hands freely with it and draw on an old pair of kid gioves, and you will be delighted with the effect. This is equally good for a chappea

## HORSES AN! CATTLE.

## blanketing horses.

To "blanket or not to blanket," thatse the question. Whethor the animal be a riding, driving, or draught horse we most emphatically give our verdict in favour of blanketing. Miany persons" say that if the stable is warm enough there is no occasion to cover the animals, and that horbes thus treated are tender and liable to oatch cold; but how many of our stables are warm enough, especially if well ventuated? Most of them ure a littlo too woll ventilated for comfort. A horse comes ir from work, the temperature of the ousside atmosphere is perhaps low, yet, coming indoors, the stable feels warm, though if a thermomoter wore interviewed it would probably be ascertained that the temperature inside was a little above freezing point, perbaps in the neighbourhood of foity degrees. The animal's blood has been quickened by exercise; ho has been brought into the stable to be fastened up and remain inactive. It does not take long before he becomes chilled, as is ovinced by his hair standivg on end, "like quills upon the fretful porcupine." Yet, forsootl, he must not be blan-keted-it would make him too comfortable. The idea of using blankets is not so much to keep out the cold as to keep in the warmth. This can be demonstrated on human beings if one is at all sceptical on the point, by remoring the clothing and remaining quiet in a moderately-heated apartment, say of about sixty degrees. In a very short time the resumption of the garments will be very welcome. As to covering horses rendering them tender, this we must deny. Perbaps it would if they were brought out of doors and left standing uncovered in the cold, but there is no necessity for so doing. The covers can be kept on till the animals are actually about to commence their work. When they are resting the cuvers should be thrown on them, that is providing they are not sweating, when they should be allowed a few moments to cool off before the blankets are pat on. As the nights are invariably colder than during daytime a heavier covering should be used. An animal, no matter of what description, if continually exposed to the cold soon gets covered by a rough, coarse coating of hair, but the one that is kept well blanketed will soon display the adran. tage by its sleek coat.
Some will say: "Oh! give them a little more feed during the cold spells." Well, that little extra feed wonld soon pay for a set of blankipts, and the horse will have more life and spirit in him than if left uncovered. "But it is not natural to cover up animals, aud Dame Nature has kindly provided them with a good covering, rendering any artificial ones unnecessary." Yes, my friend, wo do many things not exactly in conformity with the laws of nature. We cover ourselves ap artificially, and when the weather is a little colder than usual we iudulge in more wraps, and if chilled go to a fire and take a little solid comfort out of that, but the poor dumb brute is namble to do anything of that eort; Le must, if chilled, quictly and passively submit. How frequently do we see horses restless in their stalls during very cold weather. It is simply an effort on their part to promote a free circulation of the blood, just the same as a man will slap his hands and stamp his feet when excessively cold. Many stables are exceedingly warm when closed up; yes, too warm for health. The heat thus obtained is cansed by the breath and the heat which radates from their bodies. The animals soon cousume what pureness there is in the atmosphero,and breathe the same sir over and over sgain till it becomes positively poizonous. Better, fart bettar, have plenty of freah air for iberg to
breathe, and cover their bodies artificially. Mind we don't advise blanketing to be done in a half. hearted way-one day done, and another loft If the weather is a little warmer than usual do not discard the blanket, but ase a lighter one.
While on this subject it will be as woll to dravy the attention of drivers and teamsters to the oruel practive of leaving their horses standing outside of stores, hotels, marlsta, etc., after being driven perbaps a long distance and then allowed to remain uncovered while their owners aro being rande comfortable. This is a very good way of sowing the seed of many a disease that horseflesh is heir to, to eay nothing of the cruelty of the action. A word to the lazy man, blanket your horse and it will save yon a great deal of grooming. Horses thas treated don't require nearly so much cleaning. Perhaps a consideration for self will induce you to be a little more attentive to your faithful servant. It is not very much trouble carrying the blankets with you to your work in the fields or elsewhere. Your dumb friends will not object to the extra trouble for the sake of the additional comfort.

## THE CLYDESDALE.

The greatest 2 ival of the Percheron horse in this country, as a draught-horse, is the Clydesdale. It is very difficult for one who has not had a great deal of experience with both breeds to jud 3 which has the most merits. Some of the friends of the Percheron claim that it has the better foot; that the Clydesdale has a flatter foot and more liable to become lame. The Powell Brothers, of Pernsylvania, have been, in past years, the largest importers of Clydeedales in the world. Recently they hare added Percherons to their breeding stad, and imported large numbers of them. They informed the writer, last year, that they preferred the Clydesdale to the Percheron; that thes thought he had a little more energy and endurance; but some allowance must be made for their long attachment to the former. In our opidion farmers will make no great mistake if they cross with gcod animals of either breed.
The Clydesdale (Scotch draught-horse), says Youstt, owes its origin to one of the Dukes of Hamilton, who crossed some of the best Lanark mares with stallions that he brought from Flanders. It derives its name from the district on the Clyde, in Scotland, where it is principally bred. He declares that it is a good kind of draught hors, and particularly for farming bustness and in a billy country. Tho Clydesdale is larger than the Suffolk, and bas a better head, a longer neck, lighter carcass and deeper legs ; be is strong, hardy, pulling true, and is rarely restive.
Mr. Low says that "the Clydesdalo horse, as it is now hred, is usually sixteen hands high. The prevailing colour is black, but tho brown or bay is common, and is continually gaining upon the other, and the gray is not infrequently produced. They are longer in body than the English black horse and less weighty, compact and muscular ; but they step out more freely and bave a more useful action for ordinary labour. They draw steadily, and are usually free from vice. The long stride characteristic of the breed is partly the result of conformation and partly of habit and traiving; bat, however prodaced, it adds greatly to the asefulness of the horse, both on the road and in the fiede No such losds are bnown to be drawn, at the seme pace, by ang horses in the kingdom, as in the singlo horse carts of carriers and others in the West of Scotland."
Mr . Low says further: "The Clydeadale horses, although inferior in weight and phycices atrength
aotion to the better class of the draught-horeses of Northumberland and Durham, yot possess proporties that ronder thom oxoeedingly valuablo for all ordinary purposes. On the road they perform taske that onn scarcely be surpaseed, and in the fields they are found stoady, docilo and safo."

As the Clydesdales trace back their origin, on one side, to Flanders, and as the progenitors of the Percheron wore supposed to have come originally from the same province, it is not imyossible that there is kindred blood flowing in the veins of these great rival breeds.

## AbCSE OF ANIAFALS.

Fvery pettifogger and raw unfledged professor of science so-oalled-regardless of the fact that esperiment is only valuable for dibcovering now things-beging "exporimenting" for the sake of gaining some questionable notoriety. The man Who shut up a wretched calf in a dark dungeon for three montha to test the effect of light upon its growth, should bo made to memorizo Byron's "Prisoner of Chillon" in a similar place by the light of a tallow dip. It was the grossest and most useless cruelty. Such misery could not fail to retard growth. Common-sense teaches that to make animals thrive we must make them comfortable and happy. The stock-owner who can realize this great truth and act upon it will never need a hospital or a burying ground about his premises.
A horse over-driven, left out in a cold storm unprotected; whipped furiously home at midwight' and then fed a larger mess of oats than usual because he was tired -I have seen such a one sick the next day and "drenohed" with a whole pailful of filthy decoction which was forced down his unwilling throat by the aid of tortaring "twiches" upon lis tender apper lip by which his lead was held immovably elevated. This is a typical cabe. The grossest neglect and ill usago, overfeeding or starving, irregular watering, exposure and other bad management produce all the ills that horses and cattle are heir to, and to remedy these wicked blunders we demand a host of green, half-educated, self-opinionated, dictatorial veterinary doctors, who, not employed adequately to their own supposed merits, create employment: by getting up scares.-F. Wamer.

## HOBBLING HORSES.

A piece of ram hide, four feet long by two and a half inches wide, is fastened to the forefoot below the fetlock, by means of a well padded strap and buckle, and should be so attached that it will drag fat on the ground. Two may be used if one is not found sufficient, one on each front foot. In travelling the avimal steps on the rav hide straps with his hind feet, and will be found very close to camp every morming, or in the pasture. Il is much better than a pole to keep him from jumping the fence. I find that hobbling a horse by the feet by chaining or straping them together, makes him sore and stiff in a short time; and if I cannot nse the raw hide and strap, I ase a rope about seven feet long, by tring it around the front legs well above the knees, in a bowline knot, then throw the end ovcr the back, and tie to the rope around the legs, so that it cannot slip down. He can trsvel slowly very well, but is very easily caught.-American Agriculturist for December.
Waen colts are foaid in the spring they should be reaned long enough before cold weather so as to get used to eating other food. A fer oats given every day through the winter will add fifty per cent. to the value of the colt, in any year up to five or six It is a great mistake to slarre
young colte vith rion to mahing khemin herdy

## SEIEEP AND SWINE.

## SELLING LAMBS IN AUTUMN.

The right way to crase a flook of shoep to deteriorate is to sell off the best owe lnmbs in autumn. The following on this point is from the Sheep Brecier:
Fat lambs are always in good demand in antumn, and the farmer is usually in need of the monoy that oan be realized from thom. In his anxiety to turn the needed cash he is quite apt to ovorlook the ultimate wants of his flook. He is well aware of the fact that ola sheop are not profitable in any capacity, yet he thinks he will ohange them anothor season, and turns his lambs over to the butoher; so the bare-bellied, unprofitable old ewes are kept over again, and the quality of the flock generally deteriorates.
However well it may pay to sell young lambs in autumn, it certninly does not puy to keep old worn out ewes to breed from. En ugh of the best ewe lambs should be saved to take the place of these old ewes. A ewe should not be kept to more than the age of four or five $y$ cars. Many of them are at their best at six years of age, but as a rule they begin to deteriorate after lambing three or four times.
Old sheep may. bo tarned off to very good ad-vantage-even old owes. By keeping them away from the ram in autumn, they may be fattened and sold in early winter at small cost. Sheep uanally come up from the pasture in autumn in excellent condition. This start should not be lost. Commence graining tham lightly even before they are entirely removed from the grass. Commence early to keep them under corer of sheds or stables and thes will not fall away, as is too often the case in early winter.
Wethers can be profitably kept antil three yoars of age, when they can be made to dress 100 pounds and upwards. I think it more profitable to keep the greater part of the flock to this age then to tarn off Then buts six or seven months cld.
Early spring is a good time to turn off fat wethers. Sheep fatten well in cold weather. The farmer has more time to attend to them in winter than at any other season of the year, and by fattening in winter and holding until spring the fleece is taken off and sold separately, by Fhich plau much more can be realized from it. They may be clipped and sold in April by this method. Matton usually commandsa good price at this time, whle the wool may be held as long as desired.
On the whole I do not believe it good policy to tarn off so many lambs in autumn. It think that the flocks are too much kept down in this way, and that the farmer cannot realize to the full on such young snimals. We must consider for the fatare as well as for the present in these things.

## PIGPENS.

For all their fat, which might seem an indication of great capacity for enduring cold, pigs really saffer more than most animals from the extreme cold of our winters. Given as geod shelter as other farm animsla they would no doubt stand folly as much with as little suffering and consequent loss; but tho fact is that, as a rule, they are nct given as comfortable quarters as other animals are.
A good, comfortable, roomy hog house is usually the last bailding to be pul up by the farmer. Comparatively fow of them are found at best. What does the word pigpen suggest to tho mind? $\Delta$ little, low structure made of odds and ende of lamber, bsttened, parhaps, to keep out the storm, and parhapenots. There in bai a bowrids thiok-
ness at best between the pigs and the outdoor air. Nine times out of ton it is not furnishod with any kind of a door. A squaro hole permits passage in and ont, and it is not to be expected to admit pigs and osolude cold winds. Any place that pigs can crawl into is termed a pignen, and vaguely thought to be guite sufficient to meet the wants of the case.
Pige cannot or will not koep clean in such places. The particular corner that serves as a resting place is as wet and foul as any other part of the pon. This completes the discomfori of the poor pig. He must lie in a wet mass of filth through the stinging cold nights of winter, which is only kept from freezing about lim by the warmth of his own body. An armful of dry straw is a lusury that is too seldom visited upon him.
Economy as well as humanity demand something different from this for our pigs. Pigs cannot thrive under euch conditions. It will take a largely increased quantity of food to keep up sufficient vitality to enable them to withstand the hardships of winter, to say nothing of laying in additional flesh or growth.
Now, the farmer may not always be able to go at it at once and put up a good hog honse. A good building of this kind involves considerable outlay of time and material. But he certainly need not oblige his pigs to endure the discomforts of a cold winter in a pen such as above described, oven if he does intend to build the next year. Don't let the poor animals pass another winter in sach a place, when a few hours' labour, and such materials as are at hand on every farm, will make it habitable and comfortable.
Sheet up on the inside of the posts with any lumber at hand, thus forming a space between the two walls that may be staffed full of straw and well rammed down. Hang doors on hinges at the top that the pigs can swing in and out et pleasure and which will close after them and keep out the cold and storm. This makes quite a comfortable pen for winter if bedding be plentifully supplied. The labour and expense of fixing will save many times its cost in the feed consumed daring the winter, and the farmer will have the satisfaction of knowing that the animals under his care are made comfortable.-W. D. Boynton, in Farmers' Review.

## TRICKS IN THE SHEEP TRADE.

The " big fleece " deception only deceives greenhorne. Angbody who knows anything of sheep, knows that the thirty or forty pound fleeces are either three-fourths yolls or grease and sand, or are partly two jears' growth besides. The sheepshearing " festivals" may well be festive over the ludicrous basiness of cutting a fleese of this kind, and solemnly weighing it and awarding a prize to the man who made it !
Then there is the getting up of the sheep for the show and for sale-the stubble shearing, by which scarcely any wool is taken from the ramp and other parts, to give squareness and size to the carcass (?) as well as length to the wool. Moreover, the appearance of yolk is given by dusting yellow ochre into the Fool, and this shaping and colouring, at times, secures a first premium at a show, or $\$ 40$ or $\$ 00$ extra in the asle of the lamb.
I will tell a story which will probably amuse the party whose trick is exposed, as well 58 others. I was showing him varions samples of soapstone-a heavy, greasy-feoling mineral-used for various adulterations, such as making soap, candy, paper, axlegrease, as well as for some legitimate parposes. He asked me to get him a fow pounds of it. I told him where he could get it. I met him at a State Fair not long after, and he showed me his sheep with blee and ned ribbons around thair pookg "That roapatone did its" bp
said. "You nevor saw such glossy, soft and silky wool in your life;" and he laughed, and I thought-Cor., N. Y. Tribune.

## fhy hogs aft diseased.

Some things are self-ovidont, otlars are only supposed to be. Wo know our hogs dia; bat why, we do not know. We are sure they dio of disease, but what that disease is we nre l.ot sure of. There must be a cause for the diseaso, but what that cause is, whence it comes and why, is not 80 evident. The carcasses of wild animals are therefore found one mess of muscular tizsac, or lean meat, and that is their natural condition. During the process of gummer feeding they may, if food is abundant, lay on some fat but, if they do, it is only an incumbrance to them, and of no manner of service unless as a supply of fuel for consumption in sinter, when food is scarco and the cold exhaustive. Naiure supplies to such animals but little fat-forming food. It is only in a state of domestication that animals are made and kept fat, and in that condition they carry that which is a source of weakness instead of strength, and of disease rather than health. No man seeks fat as a source of strength, and though a moderately stout man may be called healthy looking, it is more apparent than real; hence the more he has of it the weaker he is, and the greater is the derangement of the vital functions which we call disease. Do we ask then whence comes disease in our hoge? We answer, fat is a condition of disease, and the more fat the more dis-ease.-Rural World.

Sosre people think that sheep must be out of doors, or have a "mighty cool" place, or they won't do well. Don't fool yoursolf, for this is a lazy man's whim.
A Micmonn farmer has conquered Canada thistles in his sheep pasture by pntting $\Omega$ small bandful of salt at the root of each thistle. The sheep do the rest of the work.
Steer husbandry is steadily declining in France, the present number of sheep and lambs in that country being less by about $11,000,000$ than it was a fer years ago.
Tre increasing preference of manufacturers the past season for unwashed wools to washed has been more noticeable of late, in that many lots of washed wools held at what have been considered relative prices, are still unsold on all markets, while unwashed, of some grades, are all sold. It is better for all concerned that wool should be shorn unwashed.
Saeprerds should not neglect their flooks at this time in the belief that they require no protection until winter comes, for that is a great mistake. Sheep ought to have ehelter from the long, oold autamnal rains. During these rains they get soaked to the skin and suffer greatly from the cold, and this tells on their health and reduces their condition. It is very convenient to have rude sheds oat in the field for the sheep to ron nnder at this season, to escape the rain and to save the trouble of driving them to the stables.
Ir is not a good practice to give shcep grain early in the morning, unless they sleep out doors and have an opportuntry to get up and stir around briskly awhile before feeding. In a flock of sheep there will always be found some that resemble certain persons-destitate of appetite in the morning. If the grain ration is giverrout they will not come at all, or so listlessiy that they will not get a fair proportion, and they will lose condition. I have found that in a flock of 150 lambs, ten or twalve would scarcely touch grain in the morning, bat at night not one would dtand brolk

## POULTRY AND PETS.

## FARMERS' PUULTRY.

In the many barn-yarde we visit from timo to timo wo cannot holp being struck by tho appear. ance of tho fowls ranging around, scrubs in the veriest sense of the word. Yet it costs just as much to feed one of those miserable things as to keep a good one. "Oh I but we don't feed them," said one farmer, "they just have to pick up what they oan." Well, s good bird will pick up his living just the came and be of groater value. It almost inclines a person to the belicf that geod birde are searce, and beyond the reach of the average farmor. Such, however, is not the case. Well bred birds of almost any variety cau bo obtained from first-class breeders at very low figures. It is not necessary that the birds should be able to take honours at the leading faire. Good thorough-breds will be good enough, and these the breeders will be glad to sell at low figures. It is only for show birds that extravagant prices are paid, and that is only right, because the purolaser buys with the intention of soon remunerating himself for his outlay by obtaining cesh prominms. With the farmer it is different; he wants to improve his stock for increased egg production and better table qualities. If a farmer having poor specimens of pouliry does not feel inolined to root out all his old stock and replace with better varieties, let him kill off, yes, kill off all the old cook birds, don't leave one about the premises, and replace with birds of better quality, which will, even during the first season, improve the flock. Lately we saw a very good strain of barn-yard forls produced by crossing at Plymouth Rook on Games, the result being short legged chanky birds. The owner said they possessed all the good laying properties of the Games, without their natural wildness, and were not so broody as the Plymouths. But the Gray Dorkines or Bralmas will mako their mark as soon as any and bo found equal to the best.

## POULTRY NOTES.

"What varieties of poultry are in most demand this year?" was the question we propounded to one of the leading breeders. "Light Bramah are again coming to the fore, aud I don't wonder at it," was the reply, "for taking them all in all, they are the best class to breed. Maturing early, good layers, hardy, and for table use they are only excelled by the Games for juiciness and are something to cutat. Some persons think thoy consame too much food, but in my opinion they eat very little more, if anything, than many of the smaller varieties, and if the eggs laid by a Bramain for a season were weighed, they would be heavier than perhaps the greater quantity laid by a hen of the other varieties." On inquiry from other prominent men in the business, this opinion was confirmed.

## GROUND BONE.

Poultry raisers should not neglect to use sufficient raw bons, either crushed or in the form of meal. It contains lime, as do also oyster shells, but it also contains animal matter which is of great value. Bone when burned, is of comparatively little value over oyster shells, but whon crashed or ground raw, supplies value peculiar to itself. All classes of poultry are extremely fond of it. Care should be taken to have it pure and aweot. It is good for all classes and ages of poultry. For young chicks it should be used in the form of meal, mixing a small quantity two or threo times a week with thoir soft feed, say ono quart to a bushel of corn meal.
For young turkeys it is slmost indispersable, to
prevent leg weakness. At about the time of their "shooting the red," when their health bocomes established and they grow npace, the development of their frames and legs requires a more liberal assimilation of material than oan be afforded by tho usual articles of food. It is woll to begin to mix a littlo bone meal with the feed of small turkoys, and from the time thoy aro four weeks old it can be used freoly.
No injurious offects will follow, for it is nutritious, and especially it supplies matorial to rapidly dovelop and strongthen the bones of the legs. All raisers of young turkoys know that leg weakness is one of the evils to which they are exposed, and this is a natural and excellent preventive; and here is one of the mauy cases where provention is far better than cure. Bramah and other Asiatic chicks, for the same reason, are greatly bonofited by its use.

Raw bone has been proved by analysis to contain every part of an egg-white, yolk, and of course shell. It should be constantly kept in a special place in the pen or apartment of laying hens, as they will consume large quantities of it, and it goes chiefly to egg production. Granulated is the best form in whioh to place it before adult forls, and in this shape it keeps fresh longer than when ground into meal. Bone is one of the principal ingredients in the composition of most of the "egg foods" in the marbet.-American Poultry Yard.
Nest bozes should either be thoroughly cleansed and whitewashed, or elso burned and replaced by nery ones quite frequently.

Ladies who apply themselves closely to the business are almost invariably among the most successful poultry raisers.

IT does not require a great quantity of water to rear ducks successfully; indeed, they must not be allonea freedom to it while small.
Be sure and sprinkle a little pulverized oharcoal about the poultry quarters. The fact that it soon disappears is evidence that more is required.
Wurre hens are still confined to their yards, do not fail to supply them with fresh grass and weeds every day. Plantain is very acceptablo to them.

Ir is said that France exports more geese than any other country in the world. What is it the French dc not produce? Their habits of production and economy are enough to make a thriving nation.

Where hens are kept in stables, they are sare to become lousy, and the lice will soon get into the horses, to which the vermin are a great torment. Keep your hens in a house to themselves. It only costs a trifle to build a comfortable poultry housc.
The eggs laid by an active, healthy hen, sapplied with good, fresh food, are much sunerior to those laid by the common scavengers of allejs, back-yards and pigpens. The difference in colour, smell and taste is very evident to one who has given the matter a little attention.
Ir costs no more to feed a thorough-bred hen than a scrub, and the extra eggs she will lay by the time she is one gear old will nearly always pay the firit cost. Then, when one remembers that there is a constant demend for pare stock at good prices, any one can soon calculate the loss sustained by breeding poor fowls.
Tae dull times are driving many people to poultry leeping. This is as it shoold be. Many a man, by tho judicious ase of a portion of his leisure which mould othorwise prove in! some, might construct an inexpensive poultry jard on ground that would otherwise be useless, and, with a very amall outlay, provide bimself and family with a dozen good pullets that would by iext Decomber be ready to supply them with egge "to keep and to sell."

## CREAM.

Mrs. Lanatry bas dyed har hair red. Nany of her admirers have painted the tomn the same colour.
Bonnets keep going up, an l yot they are called Fall bonuots. This is a contrndictory world, my masters.
As old poet'speaks of the "red.leaved tables of his heart." Tennyson and some othor bards keep their old lumber in their heads.
"Do you know that Charley indioates that you havo mings?" "Ah, I see ; he called mo his angel." "No ; he said you were a little goose."
A san that has plenty of corn in lis barn ia always of an even disposition, but the one who has it on his feet is invariably cross-grained.
Men who drive, according to Robert Bonner, are nover ill-natured. True; slave drivers had streaks of good nature. The backs of the negroes showed it.
"I bear you have a new baby at your house." "Yes, and elve is an excellent cook." "How's that?" "Well, she has been making us stir about already."
A syale boy, who stood gazing wistfully ai a large candy man in a city confectioner's window, suddenly exolaimed: "I could lick that fellow with both hands tied behind my back!"

Junges and senates havo been bought with gold ;
Esteem and love were never to be sold,- Pope.
If little labour, little are our gains,
Man's fortanes aro according to his paing.-Herrick.
Learmana is but an adjunct of ourself;
And where we are our learning likewise is.
-Shakespeare.
Erbors, like strams, upon the surface flow;
He Fho would search for pearls must dive below. Dryden.
True charity makes no noise in the world. A person who does good out of pure motives never spreads it abroad in the circle in which he moves, nor makes it public through a nerspaper.George Eliot.
A fashion item says that greas disorotion must be used by wearers of horizontal stripes, as they are not becoming to any bat rery tall and slender figures. Persons contemplating a residence in the penitentiary should paste this in their hats.

At a negro wedding, when the minister read the words, "love, honour and obey," the groom interrapted him, and said: "Read that again, sah ; read it once mo', so's de lady hin ketch the full solemnity of de meanin'. Ise ben married befo'."
"I'd like you to help mea little," said a tramp, poking his head into a country general shop. "Why don't you help yourself?" returned the proprietor, angrily. "Thauk you, I will," said the tramp, as ho picked up a bottle of rickles and two loaves of bread, and disappeared.
How careless and negligont we often are of friende and relations while they inhabit with us this terrestrial sojourn; and how we first repent of our insensibility when the fair union, at least for this side of time, is finally cut asunder.Goethe.
Min. Isancsten : "My frent, I sells you dot goat for seventeen tollar und a ca-vorter, und I will never dake a cent less." Castomer: "What's the quarter for?" Mr. Isaacstein: "Vot's dat ca-vorter for? Dot's my profit on de goat. You tink I can subbort a family, und give dot goods avay?"
Adisotple of Blackstone at Albany, Ga., was met carrying home a 'possum. He was asked: "Hello, Jack, what is that?" "'Possaml" "What aro you going to do with him?" "I'm going to have a big 'posaum sapper." "How many will be there?" "Two; me and the 'posism! !"

## GARDEN AND ORCEARD.

## CULTURE OF'TILE GOOSEBERRY.

## by d. Gott, ARLONA.

The soil best suited to succosgful gooseberrygrowing in this country has been found to be a thoroughly drained, rich, and deeply-worked clay loamy comprosition. These qualitios of soil are imperative, as the plant is found to be vory impatient either of excessive drynoss or excessive heat. This is doubtless one of the chief causes why success with it is so very precarious in our conditions. If these conditions conld be but olightly changed it might be the means of determining the difference between success and failure, a difference that is very important to the cultivator. In a soil of this character, with a moderate amount of protection from dryness and heat, tho success of gooseberry growing from improved American seedlings is assnred. To secure these conditions location must be sought for and skilfully used. The young plants may be removed from the nursery rows when they are two jears old, when they will be fine, strong, well-rooted plants, whose after-growth will make rapid progress and give good satisfaction. They may then be carefully planted in the ground, previously well and thoroughly prepared and marked off in rows four feet apart, and the plants put four feet apart in the rows. This planning will give 2,725 plants to the ncre, and will give great satisfaction to the workers and piokers, and if every plant is nicely growing in its place, as it should be, it will make a vory pretty plantation after the first year's growth. The groundj must be kept scrupulonsly clean during the entire summer, and must be thorouglily pulverized and stirred up by means of one-horse cultivator between the rows both ways, and not a weed allowed to be seen. The young bashes will make extracrdinary growth of young thrifty wood, and the set of fruit buds will be astonishing and will well repay all the labour and oare that may be lavished upon them. In gooseberry growing, as in every other kind of fruitculture, if one would wish to reap the highest result, inoreasing vigilance and constant application must be most certainly and most freely given. The anmal praning will consist in shortening in the summer's growth to a moderate extent, and in some cases in thinning ont some of the crowding shoots. However, this operation is generally and best done in the oarly summer, as the growth of wood and frait buds on that which is left will be so much better and more oncoura ging to the grower. After the wood has borne froit some three or four yeare and is becoming old and feeble, it may be cut ontirely out and the young growth encouraged in its place. This oporation is called renering, and is very important in all praning for fruitfulness. The question how long will a gooseberry plantation last is a very difficult one to answer satisfactorily, as circumstances and locations have so much to do in its determination. We have known them to still remain comparatively profitable after having been irnited for twenty or twenty-five years, and our opinion is that if everything about the location and soil is right they may be mado to do good service during that length of time; but we do not by any means advise this kind of thing, for we believe, on the contrary, that we get the best results from young and vigorous plants as in all other kinde of fruits, and for this reason we would adrise changing the soil by a new plantation, at least after overy ton or twelve years' service. Youag plants are now produceả so succossofully and so chenply, and so many new sorta ara yearly coming ont that there is no economy in running plantation afier ita prims is over.

## CONTINUED NOTES ON GRADES.

## by p. h. henderghot, bertie vineyimds, stevens

 fille, ontalio.Lindex.- We lave feasted on Lindley grapes as Inte as Diarch 24. It is a sploudid keeper, in fact wo heve no grape in our whole collection to surpass it in this rospect. It has como through the winter betcor than applep and without more care, eicher in paoking or after attention. The fruit on our table to day is sound and in good condition, borries still frmly attached to stem, juico richer than in the fall, flavour about as good as ever and quality truly delicious. They are so good that I feel constrained to urge every reader of The Rural Canadins, who has not got it, to try a few vines of this grape. Although it is a hybrid grape, it has always proved hardy, heaithy and free from mildery on our grounds, and seems able to withstaud our coldest winters without injury. it may not always produce quite so much frut as the Concord ; but it is so much better in quality that we can afford to take a little less. Xet we have had several seasons when our Lindiey vines produced more fruit than even the Concord. In colour it is bright red, with a delicate lilac bloom, and ripens carly here, often riponing some fruit two weeks ahead of Concord or as early as Champion, but does not ripen up whole crop so soon. When half ripe it is better than many other ripe grapes. It is one of the strongest growers and will not require very rich soil. It occupies a place in our large collection which no other grapo we have can fill.
Worden.-This variety has been steadily winning favour on its own merits. When first obtained and planted on our grounds, several years ago, it was not so highly spoken of as it is now, and is one of the fers new grapes that has more than fulfilled the promises made for it. As grown here, and as we have seen it elsewhere, we should say that it is not inferior to the old reliable Concord in any important particular, while it is better in some. The vine is certainly as hardy as Concord and about as good a grower, although the canes are of more elender growth. It has almays been healthy and free from disease of any aind on our grounds, and the fruit uniformly good. Some eay the bunches are larger than Concord; bat, as grown here, we do not think they average quite as large, but are of good form and sufficiently compact, with berries considerably larger than Concord. The fruit has a liavoar distinct from the Concord, and to our taste decidedly better. It has no objectionable flavour and evergbody will like it. The serious chazge of dropping its fruit has also been brought against this grape; but we have seen nothing to justify the statement. It ripens inere about four or five days before Concord, there being some variation in the relative time of maturity in different seasons. It will, no doubt, take a leading place among grapes of its olass, especially in the more northerly sections, and if it will not supersede the Concord it certainly is one among a forrothers of its class which are dangerous rivals to it. There are also, however, a ferr other varieties which, we believe, will make their way to a foremost position, and it Fould be no great surprise to us if it should transpire that Mr. Bull, the originator of the Concord, has produced another seeding destined to a career scarcely less popular than iis old parent.

## DECEMBER DOINGS.

The winter oampaign in the orohard has to be conducted more on a defensive than an offengive basis. The young trees mast bo fortified agaiust the athacks of blizzards, jow tomperature, rabbits
against weather and mice was described, by word and illustration, in our Oct. issue. The mound of earth, howorer, will not stop rabbits from gnawing the bark above it, and the pratice of painting the dody of the trees with a lime whitewash, into which fresh blood or carbolic acid bns been mised, is to be recommended. Simply rubling the truuls with a piece of fresh liver or grease once every two or three weeks will also repel the sharp-toothed vermin. There are many other ways and means of protection against rabbits ; but in so simple $\Omega \mathrm{ma}^{+}$ter wo can leave the choice of old, or the invention of new modec, to the ingenuity of each individual orchardist.
Snowfall provides a white winter blanket, which affords a warm and friendly covering to the ground and the roots of trees; but in its overanxiety to play the rolc of protector it falls alike upon the just and unjust, and covers a multiitude of sinful mice, giving them a clance to tunnel unseen to the yourg tree, which its owner had neglected to protect by a mound of earth, and feed on its bark. In such a case the young orchard needs attention after every snowstorm; for the suow close to the trunks of the trees must be packed down hard-troddon down with the feet, a ninefold trouble which the "mound in time" would have saved you.
Never be tempted to pul coarse manure close around young trees in the supposition that such material might be useful as a mulch and for winter protection. Mice will congregate there and certainly girdle the trees.
This is about all we can do to assist the young orchard. In its hour of greatest need, when attacked by winter's icy breath and its fearfal blizzards, we desert it and play "'possum"-in the warm room, by the blazing fire, safely honsed and laughing to scorn the winter's fury. We lave done our duty and feel entirely safe for the orchard.
Still, in the meantime, we have to put our wits to work, studying out a plan for next spring's aggressive campaign; for every good farmer and fruit-grower has to keep on plauting. Now is the time to draw a map or plan of the orchard which you intend to plant in spring. Look over the lists of varieties; consult with your neighbours. Get into correspondence with a reliable nurseryman and send for his price-list. Make your preparations early. The early bird often zets the biggest bargains.

## SOILS IEQUIRED FOR FROIT-TREES.

The best soil for the production of the apple is a deep, rich, moist loam with a sandy subsoil; sithough it succeeds moderately well upon any soil not too dry.
The pear delights in $\Omega$ deep, rich, warm losm, with a clay subsoil.
The plum requires a deep, moist soil; but there must be no staganat water in it.
The cherry grows best in a rich, warm, sardy loam. If a mulch of leaves, straw or brush is paí around them they will be very much benefited by it.
The quince shonld be planted in $a$ very moist, olayey soil, bat one free from stagnant water.
The peach produces frrit of a much finer quality when planted apon light, high land, with a southern exposare. It is also mach more hardy and longer lived than apon a stronger soil and a more northorn exposure.
Carrants and gooseberries succeod best in the soil advised for the quince.
Raspberries and blackberries are more hardy if planted upon light, sandy loam; bat if large berries are desired a malch mast be ased in Jaly.


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#  <br> TURONTO, DECEMBER, 18bĩ. 

"TEE RURAL CANADIAN" AT GREATLY REDUCED RATES.

We are nearing the close of another year. Soon our subscribars will be deolding on their papors for 1886. The pablisher of Tar Ruras OnNidian hopes to retan the names of all old subscribers, as well as to add thousands of new namen. With this object in view, the following favoarable olab offers are made:

## olubbing batrs fob 1886.

Olab of four names ( 75 cents each), $\$ 8$, and free copy to sender; clab of ten namea ( 60 oents eaoh), $\$ 6$, and free copy to sender. For larger clabs special rates given on application. And if any person wishes to make a canvass of a townhip for The Rebar a good commission will be ellowed.
Tas Rusar Canadian for 1886 will be greatly improved in many waya at the suggestion of ralued friends, who have said that the present page is too large for binding, the size of the page - fill be reduced, while the wiumber will be considerably inareaned, thus iñsuring the usual quantity of resding matter. It is soarcely necessary to add that the pasious departments of the paper, which have given so much satisfaction in the past, will be maintained, and new features will be introduced.
We ask our friends to aid in extending the alroady large circulation of Tar Romar Canadins. Say a good word for the paper to your neighbours. Ask them to sabscribe. Send ns a club of four, and secure a free copy for yourself. We also offer book preminms, which are weli worth looking at. Good books are valuable sids to the farmer; and our offar affords an easy ray to make additions to the library. Try.

## FENCING ODT v. FENCING IN.

The prairie people have a bensible law dealing with the care of stook on the farm. With us, in Ontario, the las is to "fence out"; with them in the West and North. West it is to " fence in." Why should a man be compelled by the las to protect his crops by a fence of regclation height against his neighboar's cettle, or shrep, or bogs, Gr jorses? Is it not obrionsly the daty of every parson to avoid trespass npon his neighbour's sstste, and to aroid doing damage to his neighbour's property ? In a civilized countrs governmons is sopposed to exist for the protection of persons ană property against wrong; but in this mestier of the protection of crops and other property on the farm, the farruer is bound to protect himsolfor suffer the consequences, nithont any right of reparation if he fails to proride what the law pleases to define as rcasonsble protection against loss. We mant a reform here; we want 4 Ian which will make it the daty of overy farmer to "feace in" his orn catter, and not to "fence out" his neighbonr's It would prore to be a must economical reform, for ander its operation we might diepense with thousands of miles of costly and unsightly smake fences. A morsblo fence to enclose a few racres of pastore land would serve overy purpose under snch a lsw. Then think of the edvaniages (1) Tho capital anvested in fences empleyed proonctively in other resss; (2) the appesrance of fanms improsed, (8) tho area of cultivable land increased, (4) the seciung ground for nends broken up, etc, etce Eara mo $a$ farmer membor in the Ontario Legielatare rith plack enough to propess a bill oz this subjoct and bo cany if turough?

## the fotato rot.

The potato rot has tarned out to be mach more serious than was apparent a fow weeks ago. Not only luas the area been greatly oxtended, but the rotting procoss has continued far boyond the usual limits of this blight with us, When the disease first appeared after the heavy rains of August, it was confined to heary olay lande along the margin of the lakes; but, the unfapourable weather continning, it extended northward and eastward 50 as to embrace the whole region from the Detroit River to the Ottawa. The only portions of tho conntry comparatively free from it are the counties bordering on the Georgian Bay, the districts of Nubloka and Parry Sound, and tho counties to the eastward of these. The greatest extent of injury has of course occarred on the heavier soils, and to late-ripenids crope. On sandy and gravelly soils some fair crops have been gathered, but the total luss is unguestionably very large and the taint is very genaral oven where the least damage has been done. Long sfter the potatoes were taken ap the disease continued its ravages, and it is not at all nankely that great loss will take place in the pits and storehonses. To add to the serivasness of tiae sitnation, similar reporta cume from the New Eugland States, Nerr Yorb, Pennsylranis, and in fact from ail the northerly Statea as far west as Minnesota. It is almost certail, inerefore, that good potatoes will fetch fancy prices nnul the next orop ripens.

## insurlvg the crops.

The new crop of fall wheat has had a good show so far, and its appearance throaghont the Province is iull of promise. The land was in good condition at sceding time, and the temperature and rainfall since have been farourable for healthy and vigorous growth. A liberal ioparessing of manure is probably the best treatment that can be giren as a nreparation for winter, and if this is attended to before the first snowfall it ought to be almost as good an investment ss an insurance policy, and, by the way, why is it not practicable to apply the insurance system as a protection against loss by the failure of crops? There is insurance for the life of man and beast, and the effect of the sonditions is to lengthen the sfan of life by the necessity for observing the terms of the policy. Prudent men know that insurance of life or property is a good business investment, and the raricty and axtent of assurance opcratious farnish the best evidence that this b :nd of pradenco is making grest headFay in the rorla. Why, then, not insure the life of a growing ceop, subject to reasonsblo conditions in the policy ? There are of course, practical dufficuines to overcome, bat these zre not insurmonntable. The adranisges are obrious, and not the lenst of them monla be (or at least might be) the bestoral of extra care on the crops so se not to vitiaise the policy. "Too mnnh drink" vitistes the policy on a kaman subject, and 80852 matter of bnsiness the scosible human subjoct aroids "too mach drink.

## HOG CEOLERA.

An epidemio wista among the hogs in South Sumcoo, in the ncighbourhood of Bradfrrd. Many of the farmerss in that lozality sre killing off their swne, a lithe early in the sesson, ferring the duscaso will sprocd and they may lcese them. Frem the description given tho eymptoms are these of cholere. Tho zathoritics shorald sato trattiy stex in the mather, else tex s.inging oni


VISIBLE SUPPLY AND MLAREET PRICES.
What is moant by "visible supply," and of what value is it as an element in regulating the price of wheat? It is not the quantity of unmilled grain in the country-in the hands of millers, dealers and farmers-for if that could bo ascertsined from week to week it would possess some definite value. What it does mesn is the quantity in elerators, warekouses, eto., collected by commercial journals or reported to produce exchanges. Now this information may zerve as a good gaide in the fixing of prices, or it may serve as the reverse: it depends on how acourately it enables us to calculate the total produict of the harvest not yet entered into consumption; bat, strange as it may appear, dealers ana the pablio generally consider only the stook in sight, and as long as this andergoes no dimination prices refnse to rise. It is well known that the yield of this year's barvest in the United States 28 $150,000,000$ bashels less than laet year's; get because the visible supply iv the Crited States and Canada has been steadily groming from the 1st of July to tha present time, quotations are lower now than they were then. Commenting on this carions fact Bradstrecte sass that "foreign customers see that which is in sight onlyfarr supplies in their own lands and enormons quantities stored in the United States amaiting shipmenti" If this be the real explanation of the low prices of wheat which have ruled since the gathering of the last harvest, we are amazed.

## CONCERNING MUTTON.

"Yes, sir, four pence halfpenny is what they get for Australisn matton in the British markets at the present time ; it pays, and they are satisfied. That is what is playing the misclief with the meat basiness in England and bringing domn the prices of cattle, sheep, atc., in this country and the States, to say nothing of the yoor English farmers. In my opinion prices will be down for the next ferw years." Such were the remarts of one of the oldest importers of cattle, s man rino has crossed the ocesn sixty-two times during the last thirtf-five years Continning, he seid: Bome of the writers in the American press say that the poorer classes in the Old Gountry haretired of eating fat matton, bat that's not the fact The Australian or New Zealane mation is of good quality. I've eaten it myself and know that it is good. So mach money has been inrested in this branch of trade that, pay cr not pay, it is sure to be carried on for the next two or three jears. Then again, ofr sheep men du not stady the taste of the peoplo in Engiard, all sorts of sheep bcing sent accoss, no selection whatever madc. Old owes, indeed anything fat enoagh, aro shippe3. Consequently aiter the best are picked the cattlo fecch but poor prices. Thero is still a remonerative martet in England for good mation and there alwass will be, for, althougin the Australian matten will supply the rants of the laboaring dirsses, there aro the middle class people whose wauts require sapplying, azd riav will pay fair prices for the superior article. Then again, tho consumption of matton in our home mardets is greatly on the increase. Eutchers complain of the short supply and of having to go long distaroces picking up a fert animals hero and there, wheress, only s few years back, they conld be gathered together mach moro readily, and at abont the same prices Farmers mast not be disconraged at tho low yrices af present being paid. Srutton rill mizill bo in lemana, and rill fay forthe tooble of raising.


## THE DAIRY.

## HOW TO KEEP MILK.

Milk was notintended by Nature to be exposed to sir, but to be conducted as directly and speeduly as possible from the milk-ducts of the parent to the stomach of the offspring. As a liquid containing a good deal of the element nitrogen, it is lisble to early decay, or, in other words, to changerinits chemical and meohanical condition. The temperature it has when mulked from the cow is faramrable to its decomposition. Above or below blood-heat its decay is more or less ratarded; and, by passing a volume of oxjgen through it, it is made to keep the longer. Left alone, it is a suicidal sort of thing, constantly inviting its own destrnotion, so to speak. It drinks in greeaily fonl odours from the atmosphere, and provides just the food that bacteris delight in. It is determined not to remain in its originai form, for it begins to throw off its cream at once on coming to rest. Tc chomists it is bnown as a "transition componnd," seeking fresh conditions and combunations. It is congenua food the the fermentive germs that float in the air, and contains withon itself a pronciple that is an aid to digestion, whach is only another wurd for decomposition.
Such being the case, milk requires intelligent treatment if we want it to remain as it is when we get it. Assaming that it is sweet and fresh when we first tale it in hand, the first thing to do is to cool it; sud for this reason, by lomering the tempersture, the ferments to whioh it is exposed operate much slower, or do not operate at all. These ferments get hold of it best at the hest it is at when it comes from the com. They need rarmth, as most things do, for their froition ; and as we cannot get rid of them, becanse they float sbout in embryo in ary place whereair is, the next best thing is to deprive them of warmoth.
If we boil milh, and immediately enclose it in airtight ressel, it nill remain sweet for jears; batit frill sour when it is re-exposed to the air st 60 deg. F. and aprards. If we freeze it, and keep it frozen, it will remain sweet as long as Fe like; but, when it comes to thar, the effect of the freezing is to hasten its decomposi tion. This, indeed, holds good rith butter and fipsh and vegetsbles, with any periahable article, in fact. It is sheir mechanical combinstion which the freering has interfered with, and thisis an aid to chemical decsy.
The efiect of a strong riy of light falling on milk is to develop the fermentive organisms that lead to the decompositicn of the liquid. They are of a regetable charecter, and need light as well as parmith to ensble them to thoroughly do their work. It is, therefors, expedient to keep milk in the shade, not necessarily in a dark room, bat away from the light of a pindow. Butier and eggs, too, are injurcó, thongh less quickly, of 8 sirong light; and thoy shonld not be exposed to its influencs.

It is gencrally considered sdrisablo that milkrooms should be well ventilated; bat the sir mast be as pare as $\overline{\text { pe can }}$ care it ; otherrise they are betier withont the rentilation. Whatever the air is, 90 will be the mill, afier a time. If it is tainted rith any sort of an odour, tho odour of fiesh, of vegetables, of mint-souce, of paraffin, of amoke, soytidig, in isch tho milk rill testo of it Iukelligent peorlo who mako butter are araro of this, and kecp their milk in clean resscles, in a pare staesphere, in a cool room, fitilo the cresm is rising. This is absolntely nececsary in order to tecp a pare leroured iotter that rill lecpas loog an if ought A cinfy abrownure in a soum
equally so; and in aither of these ceses, if they are unavoidable, it is better to keep the milk corked up in a bottle, previously oooling it well, and stirring it as it cools.
It is of the first importance that milk should be put into vessels that are scrupalously clean, and they need oleaning after milk as much as after almost anything else. By patting nery milk into a vessol that has been more or less soured with old milk, the new is at once introduced, so to speak, to the old leaven, that will tarn it all sonr very soon. Before such a vessẹl is employed to contain a fresh supply of milh, it should be rashed in boiling water, to kill all the germs of sourness, both tha lactio acid and the bacterin that it may contan, and then in cold water, to cool it. It is hardly necessary to say liat the water itself mast be clean ; thisis obsuus on the face of $i t$.

And again : The room mast be cool, say not more than 60 dag ., if possible, or it is not of mach ase to cool the mill, which will always rise or iall to the temperature of the air that surroands it. At the same time, it is trae that cooling the milk to 55 deg. or so will preserve th the longer, eren in a room that is 60 deg. or apwards. Cooled milk in clean vessels, and in a cool room whose air is fresh and swect, will keep well for a day or two. The cream, howover, which is in mechanical rather than in chemical cumbination with the milk, will rise to the sarface anless the milk is irequently stirred.-Science Neres.

## IT DOES NOT PAY.

The big mill records do not pay. They certainly do not pay the pablio and they do not pay ihe owner of tho cow. Their tendency is to cresto dissatisfaction among those who purchase stock of the breed to which the cow of exceptional record belongs. The people apon whom breeders are to depend ara those who are not familiar with the character of the improved breeds. They read of a "Mercedes" or a "Princess II." and it is not to be mondered at that they are likely to think that erery Holstein should come somewhere near doing what "Mercedes" did, and erers Jersey what "Princess" did. Bat, of courso they were exceptional cows, and fere esceptionally fed, and tho general ran of cons comes noWhere near their record. That there is a disappointment from this cause, this journal is not the only one certainly that knows very rell. As a source of temporary profit, this forcing is anquestionably conspicuoas, bat in vier of what we have alresdy said, will it pay in the long ran?

It ia not profitable in another direction. It sills the cow-kills the gooso that lays the golden egg. ITo corr, no colf; and no calf, no profit. These remarkablo cows soon give up the ghost There is one thing that may be confiuently looked for when we read of a cow making an astonishing buticr record-her speedy death. It did not pay to kill "MIercedes." It did not pay $\ddagger 0$ forco "Princess II." It मas within the possibilities to ahow their marked excellence rithont going to this extreme, and rhile the calf from such a con, if she wres not forced bojond her porror of endarance, might not bring as great a prico es if ber record his higher, there Fould bo more calres to sell and a larger aggregate of money.-Ex.

The amerioun Lauryman ease: iret a drop of fresh milk fall into a glass of pare $n a t e r$. If the milis promptly dissemates reecli through the Fatcr, the COw that sielded that mulk as not mith calf, but if it subis to tho bottom of the glass ss it falls neon the water, and does not prodaco tat litilo of a milly clond, the cow is pregoson. Tho spiciec stavity and metidity of the aliominoan milt bemg hantiter than tha vater, Hing motaing the ourg of mill and $=2$ poen it mant.

## CONCERNLIG CHEESE.

The low prico obtained for cheese in the Englith markets must havo - very depressing effect on the cheese manufacture in Canada The primary cause of the low fagares paid is the largo importation of frazen mutton from Australia and Now Zealand, which is being retailed at about 0 cents per pound, consequently the "British workingman" can now sit down to his mattonchop the same as the better class people, without being considered extravagant.

The bread-and-cheesa diet has been superseded by wholesome fresh meat, the price of which piaces it within the reach of nearly every person, and families who used to sit down to a meagre meal of bread with a littlo cheese now banquet on mutton, a couple of pounds of which can be lad for the price of a pound of cheese. English cheese makers are nearly ruined by the change, which adds another load to the already over burdened Brit'sh farmer. As an article of diet there is nothing more catritions than oheeses set how little of it is to be acen on the tables of Canadian farmers, or even consumed by residents of the cities, yet here re make it and ship it to another ccantry, uisposing of it at prices that very little more than pay experses. If cheese were used more as an article of ditt in Canade it rould soon become apfreciated, and the home market would be vastly increased.

Thrbe is no cure for a cow that sucks herself except to slit the tongue for an inch and a half at the end and middle. If this is objected to the: animal should be fattened and killed, whioh will, no donbt, be a more disagrecable remedy to both the cow and the owner than the other.

Is is said that the flavour of beets, turnips, or cabbages in milk can be orercomo by dissolving half a teaspoonful of seltpetre in a teacup of water and pouring it into the charn with ths cream at churning time. Cabbage may be fedrat night, after milking, rithout flavouring the milk.

Iv our experience in prodacing milk, says the Dairy Forld, He bave succeeded best by using from sixteen to twenty pounds daily of a feed composed of 100 pounds bran, filt pounds whest meal, fifty pounds buckwheat shorts, and fifts pounds corn chope. A ton of this mixture costs u8, at present prices, \$10.75.

Isi France some experiments hava recentiy been made in sapplying corrs with cold and raxm rater to test the effect on them as milk givers. The food given was the same in both cases, bus it was found that those supplied with water heated to 118 deg. F. sielded one-third more milk than those giren cold rater.
How milking is done in the Island of Jersey is thens described : "Tall buciets narrowed ness the top, with kidened mouthe, are ased. A linen cloth is tued orer the top, then a smooth sea-shell is pushed down in tho depression to reccivo the milk. The shell prercats the mearing of tho cloth by the streams of milk. When the milling is done the straining is also completad."
O. C. Geege, Binnesota, writes: "To succeed as a dairyman you must work continuonsiy. The second point necessary to success is \#arm barne, yet somo men beliore that an open shed is sufficicnt protection for brate flesk and bloed, with tha thermaneter 20 degrees belon zera 3Filking treaty four cowe, I hare receirod cioso to $\$ 2,200$ during the pact gear. I believe that with foriy cons the farm will bring $\$ 3,000$ from milk and butter. I cultipato 100 acrea, and cat has outcido of it I fignre that one roan, uno team, ten cars mat latiy scree of pioughod land is tho praper properisu for g: ${ }^{24}$ iug tho best refarus

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President，8．T．Pettit，Balmont；1st Vice－President， Allon Pringlo，Selby；9nd Vico－Prosident，Mrs．R．Mro Koohnie，Angqe，Bocg．＇Treas．Wm．Couse，Mfeadowvale．
Exrcurivs Consitise－D．A．Jones，Beeton；S．Corneil， Lindsay；Jacob Spence，Toronto；Dr．Thom，Streetsvillo； B．MoKnight，Oren Soand．

## THE ONTARIU BEE－KEEPERS＇ ASSOCLATION．

Quite a．discussion has been going on in the Canadian Bee Journal respecting the futare of this important organization．Obviously it is not， folfilling its mission to that extent which is desir－ able and practicable．A number of imporiani suggestions have been made，which wo have pleasure in quoting，and in regard to which we will venture to make a fers remarks．

In the Canadian Bec Journal of Oct．21，הir． Edmard Lunan ssid：
I will in the first place propose that we change the Ontario Bee－Keepers＇Association to the Dominion of Canada Bee－Keepers＇Association， or the British North America Bee－Keepers＇Asso－ ciation．In conjanction with the head associs－ tion let there be formed county organizations， or，if thought best，let two or more counties amalgamate，and let its name be that of the united connties．If there already exist two or more associations in one county let them be amalga－ mated under one name．By forming county organizations we would be able to reach every bsotkeeper in Canada．If the bee－Eeepers could meet quarterly or oftener，they would find that it roald be of great benefit to them in deciding upon the price of houey，and how to dispose of the same to the best adrantage．

In the same periodical of Nov．4，Mrr．Allen Pringle prote：
Onr present name，the Oniario Bee－Keep－ era＇Association，is too narrow．Let it be changed to the Cenadian Bee－Keepers＇Associa－ tion，so as to include every Canadian bee－
heeper from the Atlantic to tho Pacific．I Seeper from the Atlantic to the Pacific I Bee－Reepers＇Association，as has been seg－ gested；that is too cumbrous a cognomen．It is got best in these days to lumber up titles any more than contexts with nunecessary words．The Ford＂Canadian＂corers the thole gronnd．Local associations could bo affilated with the central organization on ajuducions basis to be decided npon at annal meeting．The memberslip fee of the general organization ought to be reducod from \＄1 to as low a sum as possiblo－just what rould be necessary for the expenses of the organization． In the interest of the＂Canadian Beoliecpers＂ Associstion＂（its growth and permanency）I do not think it rould be Fise to eract a large mem－ beret ip fee－larger than necessary－and then mond＇ake to retarn a quid pro quo of any lind， Hhetuer a bee journsi，an Italian queen，or ang－ thing else．What bonas woald sait one vould not suit another，and every one rants to spend his money 83 be sees fit．Thy ehould bee－ koepers bo babies that thes mant hare tafig oferea them in the shapa of discounis，queens， or sayihing else to indaco them to join an ssso ciation the sdrantages of rhich sro obrious？The following singlo adrantage of membership eccra－ ing to each and every member ought to be suff． cient in itsalf to indace overy pradent bee－keeper to join：In caso of anjost legal procecdings against any member on account of ellegea da－ mage by his bees，ximilar to the cases now ponding in the U．S．，let it ber Perstond snd pruricad that such mamber shall rocoste the ynited anciat－
ance of the Association in the unjust litigation forced upon him，and let it also bo understood that any beokeoper who does not think it worth while to join the Association need not expect the assiatance of the Association in suoh an emer－ genop，and every beo－keeper who is worth having will join the Association．
Mr．R．F．Holterman thinks it a mistake to hold the annaal meeting of the Ontario Bee－ Keepers＇Association at the time of the Toronto Industrial，or any other great oxhibi－ thon，and argues that there are too many other attractions at such times，while it is impos－ sible to give matters of interest full discussion at two or three ovening sessions．He procceds to say（Canadiun Bee Journal，Nov．11）：

Look at the North American Bee－Keopers＇ Associntion，the Dairymen＇s Association，etc．， sessions morning，afternoon and night，and for days，business done largely by committees at that，and men going under auch manage－ ment know they rum no risis bat obtain plenty of information iirectly bencficial to the practical managemex $\}$ of bees．Let the Ontario Bee－Keepers＇Association adopt such a course of sessions after our bees are in winter quarters，of two or three days or more．We can get reduced rates no doubt．A large hotel，say in Toronto，can accommodate us all at reduced zates，and in that way we can have little conven． tions at meals and all night as $w e$ had at Roches－ ter last fall．This lest alone would be some－ thing we can never do under the present syatem， as we could not get hotel accommodation and board at reasonable rates during the exhibition weeks．This done we will strike at the root of the present unpopularity of the Ontano Bee－ Eeepers＇Association．

MIr．Holtarman arges the importance of local associasions being formed and affliated with the parent organization．He points out the bene－ fits likely to acorne from this plan，especislly in connection with marketing honey．

In the Canadian Bee Journal of Nov．18，Mr． R．Mranight gives expression to tho following गiefs：

I quite agree rith hr．Pringle that an official organ is no longer needed by the Ontario Bee－ Keepers＇Association．The Canadian Bos Jour－ nal sapplies all its members need，as far as a medunm of communication is concerned－I woula regret to see the journal become the organ of any man or set of men．I prefer to see it remain what it is：an independent bee paper－beg your pardon，Beo Journal－giving to its patrons valuo for their moneg and prospering on its ofwn merits； bat I do not agree fith him that no inducement such as referred to should be offered to members． It 18 true bee－keepers should not be habies rad re－ quare tafly to induce them to remain or becomo members of a fraternal association，the olject of whach is to adrance their opn interests；but rita－ ont attending the conventions hittle perscunal bene． Git can result，except such as is common to all readers of the pablic prints；and it is a well－ known fact that not a tithe of the members in former years hare attended the society＇s moetings． Men should not be looked upen as babics becanso they expect or accept an inducement to identify themselves with an organization having for its object the gencral goon of the class to which they themselres belong．Where there is no direct per－ sonal advantago an inciacement such as that under consideration is ono of the means vers generally employad by sach societies to secare and lold together their membership．Ar．Pingle will，I think，admit that the members of the Ontario Frnit－Growers＇Associstion are in $n 0$ sense of the Ford babies，yet thoy accept mith 8 good deal of eatisfaction the taff they snnualiy recaive in the shape of trees，shrabs or flowers by right of their membership and a quid pro yuo for the fee they pay．I beliare it is frankly admitted by ting officers of the Associstion that the fall list of members coald not be manntaind if bome zuch inducement wero not held out Ii this Associs． tion，Fith a muah greater namber of peoplo in－ leresta？in their rork than the Een－heepors Asou－ cistion can hope ts hane far many a day，find it sxuediest to offor newe spainl indmsomeat in
order to the maintenonce of a good list of mom－ bers，it is an absoluto necessity on our part to do the same thing if we would save the Absociation from decay and death．Just what the discount， boinas，or taffy should be is a point upon whioh different people may be expected to hold different viows．In my opinion it should be something useful to beginners and small bee－keepers，as they aro largoly in the majority－profeesionals will have already nearly everything that can bo offered，and will doubtless remain members under any oircumstances．
Orving to the number and length of the fore－ going extracts，our comments on them must necessarily be brief．We concur iu the soggestion that there should be one comprehensive organiza－ tien to comprise the whole Dominion，with local bedies affiliated to it．The name＂Canadian Bee－Keopers＇Association＂secms to be lighly appropriate．It will be difficult to get a general representation from so large a constituency as the entire Dominion；therefore，we think tha mem－ bership should be both representative and per－ sonal，as in the case of the North American Bee－ Keepers＇Association．We entirely concur in the viens expressed by Mr．Holterman．The＂taffy＂ objection raised bylMr．Pringle is well met by Mr． MrcKnight，and the example of the Ontario Frait－ Growers＇Association in holding out some in 2uce－ ment to membership is to the point．The report of the Committeo on Organship，given in the last issue of Ter Reral Canadas，settles for the cur－ rent year what form＂the discount，bonus，or taffy＂is to taike，so that it is not necessary to discuss that point further at present．We will only say that it will be our special aim to make this department，as Mr．McKnight expresses it， ＂useful to beginners and small bee－keepers，ss they are largely in the majority，＂while we trast that these columns will not be doroid of intarest oven to＂professionals．＂
It is to be hoped that there will be a fariher expression of opinion in regard to the best means of promoting the prosperity and usefulness of the Ontario Bee－Keepers＇Association，so that the erecutive committee may be enabled to make such arrangements for the next annual meeting as will be generally satisfactory，and resalt in its proving a grest and gratifging success．

## TRE COLONIAL AND INDIAN ETHIBITIUN．

That this exhibition，to be held in the conrse of a fow months，at liensuggton，near London， England，will afford a grand oppoztunity of show－ ing what Canada can do in the may of honey production，is agreed on all hands．The impor－ tance of mating the most of it anpuars from the fact that the great want of our beckeepers is a good market for their surplas hones．It is rell to caltivate the bome demand，but if we are limited to that，there will scon bo over－production． What would our farmers do with their wheat， beef and clucese but for the forcign market 9 Tho local sale of honey is injured bs a multitudo of small proaucers who sell at low and anremuner－ ative prices，and the only ray to correct this evil is to secure a forcign marict There the demand wiil be steady，regular and at fair figures．It would seem that this can be accomplished by taking adrantage of the forthcoming exhibition． A large display of honcy from Canade，of first－ class quality，and put up in attractivo packiges， would no doubt paro the may for a great and increasing volurno of trade mith Eritain in this commodity．Unless this can be secared，in rain do re extend bee－leeping，for withonta constant markos，thers Fill be giat，and prices kill go domi－domn belor zers．

Thera scema to ba some nacertivints ebont ith等筑：
st of mom-- part to do Absociation o discount, Ipon which ld different something 3r8, as they ionals will at can bo bers ander

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 em must laggestion orgenizarith local Canadian it highly - general lcy as the us memand percan Beear in the . "taffy" it by 1 ir. io Fruit-iisluceo report the last be caraus, or seary to Te will ) make bses it, jers, ase trast nterest
farcher means of the it the make eeting in its

Ontario Beo-Keepers' Association at the annual meeting. Onr impression is that it was left to the ereontive committee, and if we are not mirtaken, the special committee mentioned by tl.e Canadian Bes Journal of Oct. 21 was the business committee, whose functions of course terminated at the close of the meeting. The executive committoo is quite competont to doal with the matter; but if there really is an exhibition cummitteo sleo, we second the proposal of Mr. D. N. Jones that President Pettit call a joint meeting of the two oommittees, that they may mature a good scheme of anited action, and issue instructions to intending exhibitors. We have not yot soen an official statement of what the Dominion Government is prepared to do in aid of this entorprise, but it has been hinted that it will convel the honey free of charge, and pay the expenses of some one to take care of it.
Next in importance to getting np a really fine display of Canadian honey is the appointment of a competent person to take charge of $i t$, see that it is conspicuonsls shown to the very best advantage and explain all about it to visitors. Caless this be done it will be wasted labour to send uur honeg, for without any one to look after it, the probability is that it will be dumped into some obscare corner. We beg to nominate Mr. R. F. Holterman as a fit and proper person to undertalke this task. He is an ablo bee-keeper, young and active, speaks both German and English finently, and can probably detach himself from other business engagements more easily than any one else equally competent for the duty. We understand that Mr. Holterman is willing to go if asked to do so, and from what we hoow of his qualifications, we are confident that it whll not be easy to confide the enterprise to better hauds.

## THE SHEEP.BEES LAWSCIT.

Our bee-keeping confrères in the United States have been in quite a flatter of excitement over a strauge lapsait in which the plaintiff claimed $\$ 500$ damages for injury done to $a$ flock of sheep by bees. It pas contended that the bees drore the sheep from their pastare and prevented their feeding, so that they ran down in flesh, and several of the flock, like bees in some cases, failed to winter. As might have been expected, the sait fas thrown out of court, the judge deciding that there was no legitimate or legal ground for action. The way is open for appeal to a higher court; but it is hardly likels, after the damper pat upon him, that the plaintiff will carry the matter any further.
honey prizes at the bamilton CENTRAL FAIR.
This fsir was an honourable exception to those zeflected on in our last issue as ignoring beo-caltare. We lasve pleasure in pablishing the list of prizes and tha winners thereof, as folloris:
general departient.
Largest and best display of comb honey-1st, Joseph Barlow, Tyneside; 2nd, R. I. Patterson, Lynden.
Largest and best display of extracted honey1st, Wm. MreEros, Woodburn ; 2nd, Mills Bros, Hamilton; 8rd, A. Rojertson, Carlisle.
 TKENTX-PTYE COLONIKS.
Best ton pounds comb honey, in section-1st, Joseph Barlow, Tynesido ; 2ud, R. I. Pattergon, Lyndan ; 8rd, C. Misirihall, Binbrook.

Best tor pounds ortracted honog-1st, Wm. 35 ETrof, Woodbum; 2nd, U. Marshall, Binbrook; Bra, Wm. MraErop, Hamilton.

Assortorent of zections filled with comb honns, d.ferent ateca sadd shape3 of scetious to be taken into consideration-1si, Jocifh Esrisw, Toneside.
pounds-18t, Wm. MoEvoy, Woodbarn, 2nd, Joseph Barlow, Tyneside; 9rd, 1. Robertson, Carlisle.

## ladies' departyarent.

Bost comb honoy, in sections, notloes than ten pounds-18t. Mrs. Joseph Barlow, Tyneside; 2nd, Mrs. C. Marsball, Binbrook ; 3rd, AIrs. S. Campbell, Carlisle.
Best extracted honey, not less than five pounds - let, Mre. C. Marshall, Binbruvk; 2ad, Mre. S. Campbell, Carlislo ; 9rd, Mrs. Jos. Barlow, Tyneside.
to bees in winter quantens.
Good-night i a long goud night my boes !
I'vo packed you syug and warm, So you can stand an Arctio freezo Or Hyperborean storm.

You're two foot high above the ground, Beyond tho reach ol mice;
I hope you'll winter safe and sonnd, And keep your quarters nice.

I'll not come scraping with a wire, To keep the entranco treo; You re fised-hotr can you bat admare ? As in a hollow tree.

Naturo's inimitablo plan Nature's inumitable plan
Woll ventilates jour hive, Better than all tho schemes of man For kceping boes alive.

The sesson's arduous toil mell dono. Your lezaer fall of sweet, Enjor the calm repose yon re ron,
And rest your rings and feet And rest your wings and feet
If you shoald and the honsehold dall Without somo babies in it,
Rear them, for you can pollen call
Indoors Indoors, at any minute.
Take things as easy as you can, For you aro growing old,
And spand yoar days, hho murtal man, As a abort talo that's told.
Lufetimes are measared, not by days, Bat by becoming deeds;
And they desorve the highest praise,
Who leave behind thom seeds
To grow, to blossom, to bear frait,
In months and years to come;
As generations follors sait,
And raiso the hasy ham
OI honost industry, among Tho gardens, roods, and fields; Tho toil that ripples iuto song, And constant sweetness yields ! — FFm. F. Clarke, in Americas Bee Jcurnalo

## BEE PERIODICATSS.

Though wo shall take all possible pains to make the "Bees and Honey" department of Tas Robal Casadias valuable to its readers, we have no idea that enterprising bee-keepers will be satisfied with two pages per month of apicaltaral literature, even though they are very large ones, and ever so well filled. Tho appetite for reading on this fascinating subject grows by what it feeds on, and re hope to do something toward making it so ravenous that it will crave larger and more frequent meals than me can possibly give out of our small larder. As the time for subscribing to newspapers and other periodicals is now close upou us, wo propose to mention, with a fer nobes and commente, the several journals deroted to apionltare which are pablished on the North American continent.
Though the joangest-born of them all, the Canadian Ber Journal rightfally claims the first place of mention and of honour, if for no other resson than that it is pablished in our own country. MIr. D. A. Jones, its editor and pablisher, has rendered many imporcant services to apicul. tame, and it is certainly not the leare that he has giren Canadians a beo journal of rhich they have no causo to be ashamed. It is not perfect-no journal is-but it is a periodical of marled excel. lemen, and is farnished neelily at a remarisinly luy Egare-oniy plefy a yery. No conezian
small may be the number of hivos kept. The state and progross of bee keeping in Canada can only be learned by perasing theso well-filled pages. Thoy also contain valuable contributions from leading apiarists in the United States. By all moans remit a dollar to Beeton, Ont., and secure a weekly visit from this periodical during 1880.
The American Bee Journal is the oldest bee paper published in Amorica, having been established in 1861. It contains valuable articles from the best apiarists in the United States, and gives itoms of information in regard to bee culture throughout the world. Copious reports of apicaltural conventions are contained in this journal, and its readers are kept well posted as to the state of the honey market. It is indispensable to all beo-keepers who desire to be thoroughly up with the times in regard to apiculture. It is issued weelly by Thos. G. Newman \& Son, 925 West Madison Street, Chicago, Ill.; subscription price, $\$ 1$ per jear.

Gleanings in Bee Culture is a highly interesting semi-monthly, and fills a nuique place in apical. |tural literature. It is chatty and spicy, making you feel that you are onjoying a pleasant re-union with a social circle of bee-keeping friends. Its editor, Mr . A. J. Root, is a many sided man, and takes a lively interest in rural pursuits of all kinds. His paper often contains articles on strawberry growing, tree planting, and varions horticultural topics; also on carp culture, which is one of its editor's hobbies. Several pages of each issue are devoted to "Home Papers" on practical religion, in fact, a sermon department, managed exclusively by the editor. There is an anti tobacco column. If you use the weed and Fish to quit, Bra. Root will encourage you in so doing by presenting you with a bee-smoker worth fifty cents, which you must pay for if you resume the naughty habit. Publisied at Medina, Ohio, at $\$ 1$ a year.

Tho Bee-Keepers' Magaine is a monthly, pablished by Aspinmall \& Tredwell, Ners York, subscription price, \$1 per year. This periodical has recently come under the control of a now firm who whll doablless maintain its old-time reputation, which is that of a sensible, respectable, well conducted magazina.
The Bee-Keepers' Guide is also a monthly, pablished by A. $\tilde{\text { G }}$. Hill of Kendallville, Indiana, at 50 cents a year. It is a very practical journal, being edited by ons of the most intelligent and successful bee-krepers in the United States. Mr. Hulls annual report on wintering bees is alone worth the subscription price of his papar. The fullest details are given, even to weighing the stores in the fall and spring, thas showing the exaot quantity of honey consumed by each stook. This journal has a miscellaneous department, which often contains valuable articles of a scientific uharacter on a variety of sabiects.
The American Apiculurist is issued monilily by S. Mr. Lrocte \& Co., Wenham, Mass., at $\$ 1$ a year. It began its carecr abont three years ago, as the herald of a nerr era in beeliterature, and proposed to keep itself pure by avoiding entanglement with the supply basiness, rings, cliques, and all sclish aims; bat, eless for the ravity of consistency, $1 t$ soon fell into the quagmire in which is contemporarics were floundering, weat into the manuiacture and sale, ol " bee-fixin's," queen-raiaing, and the varions linces. of merchandiso by which a nimble sixpence can be made out of the bee-keeping pablia. Its editor is a joung man of some brains and much conccit, rithal, an conthusiast in apicalture. We hope bis brain porer will increase, and his corccit "grow expall by degroes and besatifully lesa.
There is, ke beicre, a bow journai $F$ bianed ia Ficres, mad one ur moro to Cahforma, bat wo oun give no infocmation shoct iberi

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A hun Thhinvigh soltil ualianu.
BY OUR SPECLAL COIIMSGIONER.
Early in November we boarded a O. P. R. train hronnd East. The cars upon this road are exceed. ingly comfortable, and the officials astonishingly polite and attentive. After passing Green River Station the scene which suddenly breaks into view is one of great magnificence. The track is laid along a ridge or lighland, some 500 ject above the level of Lake Ontario, the water of which glitters in the rays of the dull Norember sun, forming a silver fri.ge to the beantiful pictare. On alighting at Myrtlo Station we proceeded to the farm of

## MAJOR THOMAS HODSON.

This gentleman has about 145 acres. situated on the main road from Port Perry to Whitby. The baildings are extensive and substantial The Trajor has been on his farm some forty years. When he first purchased tie property it was mostly bash. The soil is a rich clay loam, is slniost level, with a gevite slope to the south, so thast it is well drained, there being some 1,800 rods of tiles laid down. The wholo of this estate is purrounded by young maple trees, which have antsined a dice size. A epecial feature of this frrm is that the barn-yard and buildings are sup. plied by a spring with a constent strcam of water conveged by iron pipes. Majur Hodson is an enchusiast in poultry and a breeder of tho Asaauc vericties, Bronze iarkeys and Toulonse gecse. A. good eupyly of frests water being indispeasable to the health of poaltry. the birds in this establishment have ranning water in their huases and are therefore in splendid condition. We next risited

## DORSET FARM,

the home of Mr Herbert Spencer, teil hown in former years as the most prominent importer and breeder of Soutidown slecep, bnt he has latels de voted his attention chiefly to Shropshires. His furms, for he has tro, a short distancespart, consist of about 150 acres, pleacautly situated somo two miles distant from the village of Eroodin. Mro Spencer's reputation stends so high, zul is to woll Gown to most of the shergraen sil pier the

American continent; that the demands upon his flucks have been very heary. Thie gentlemon is une of the farmers who recngnizo the advantages derived from underdrainiug. He remarked that It is rathor costly and takes a deal of money, but is a goud mvestment and will soon be productivo in the increase of crops; besides the land can be wurked eariner.

We neat wended our way past sevoral good farms till we reached that of
am. Joun mayden, m.p.p.
This farm consists of 400 acres, and may safely be described as the banner farm of South Ontario. The buldings are extensive and convenient. A swit running stream of wator flows through part of the farm. The fences arevery sulstantial, the land almost lovel and well drained, every thing being sept in apple-pie order-in fact this may be styled a model tarm. Here is the home of the celthrated Ciruseshank strain of Shorthorns. Mifr. Dryderis herd is mannly composed of that strain of IJurhams. For twenty-five years be has beed a breeder of Shorthorns, and during the past fuw jears has imported a great number. The farmers of the Dominion are greatly indebted to the enterprise of Mr. Dryden for much of the impruvemeni in therr catlle. Last year he imported somuforty head, while this year he brought four balls and f, ur heifers from the Old Country, all Craikshanks. He is also an extensive breeder and importer of Douthdorn sheep and Clydesdale horses. Of the furmer he has about 100 bead, the breeding ewes nurabering from forty to fifty. Mr. Dryden 15 the possessor of a grand Cruikshank ball, "Vensgarth," to waich cows are sent from all parts of the country.
Oar nest visit mas made to the farm of un. Whinus swimb,
at Columbus, one of the best known and popular men in Ontario County. This geutleman's farm, 270 acres, is situated on both stdes of the high road from Osharsa to Port Perry. The land is slightly rolling and has two live creels running through it, eminently adapting it for stock raising. The barns and other ontbaildangs are splendid, the stabling very commodions and warm. Mr. Smith is widely known as a breeder of longwoolled sheep rud Clydesdele horsee. Recently he had the misfortano to lose the well known imported horse, " Hercules," which has left his mark in the locality. julging from the large number of ynang stock got by Lim. Mr. Smith bas now one of the grandest tro-gear-old Clydesdales it is possible to sec, end which with health bids fair to become famons. Upon this farm there is fed a goodly number of prime beef cattle, which are eagerly songht, for exportation to England.

JEFFER bEOTHEES' yARMS AT THEITBY
was next pisited. It is situated about a mile from the business pertion of the tom, being within tho corporation limits. Tbes. mantlemen farm about 112 acres, and although they have some mice Larham cattle, jet their attention is mainly deroted to importing and breeding Clydesdalo horses, for frich they bave become famoas, aonally dasposing of a considerable nember. A fer dajs ago they shipmad threo Clydesdajo stallions to Chicago. and bed on hand four imported and two Cansdian bred stallions, also five importad mares and eight sihetland palis. Is the fiay, there is quite a number of these pretty litule anmmas scattered thronghont the country, many of the better-todo farmert kecping them for their children to ride to echool.

We nort called on
yessas F. yeros $2 \times \mathrm{D}$ SONS
Ashbum, nesr Nryrile, on tho C. F R and Whitby and Port Pexs road. Their farm is aboat 150 scres in oxtant. Mosers. Heron are greal on Shorthanmg of whish they huve tropo chirty. ivo
to forty head; they havo also some first-class Clydeadales, particularly a two-year-old stallion called "General Gordon," and are extensivo breeders of shropshire sheep. The turnip arop on this farm laas been unusually good; they have atored about 8,000 bushels besides about 1,000 bushels of mangels. These gontlemen intend going pretty oxtensively into apple growing, having during the past spring pionted an orchard of 150 trees.

The next farm visited was that of
jambs I. davidson, balsass,

This is a most favourably situated farm, being on top of $a$ high hill on the town lines of Piokering and Whatby, from which there is a magnificent viowt. Mr. Davidson has a splendid house, built of dressed stone, gatiered on his land. The barns and other outbuildinge are large and substantial. He farms about 200 acres, and is well known as an importer of Durhams, having introduced twenty-three bulls and thirty two heiferb last year and this summer thirty four head, princepally of the Cruikshank strain. Cotswold sheop and Clydesdale horges ars also Mr. Davidson's favourites. Of the latter he has four mares and two stallions, one of which, "Darling's Prince,". bred by Mr. Davidson, is a perfect model of a draught horse.
Journeying on to Ashburn we noticed a splendid new brick house, or perhaps it would be more properly described as a mansion, tegether with an enormous bern, eto. On inquiry we found thatit was the property of a son of Mr . J. Daviāson, who bad just completed the buildings, but had not mosed in. The young man had followed the example set by his father and planied his home on top of a hill commanding a magnificent view.
Our next visit was to the farm of
me. Abthur joinston; near GBEENwood, distant some four miles from Claremont Station on the C. P. R. As an importer of Bhorthorns, Glydesdales and other stock Mr. Johnston stands among the foremost. Ho has been in the business many years, and the farmars of Canada are indebted to him for introducing so many good animals into the country. Last year ho importoa nineteon Shorthorn brills, and this year ceventeen head of Durhrms; the latter are still in quarantine at Quebec. In addition to the last mentioned he has about trelve imported cons on the farm, besides some bulls, including the well known three-year-old, "Eclipse." There are also sevoral good Clydesdale horses, among which are "Jimmy the Laird," a dark bsy, three years old, chanky, shortlegged, in fact an all-ronnd horse; a two-jear-old colt, called "Tocn Clerk," a perfect piciare, and three very fine imported fillics.

From here we went to

## 3R. Brarelz's,

another Shorthorn expert, who has aboat thirty head of mported stook sud fivo imported Olydosdales. Ths old homestead, occapied by Mr. Birrell, Sr., is most quantly situated in a dense grove, the Louse being inviesble until a person is closo to it. The drelling of the son is on the verge of the grove. In appearance both houses are like those seen in the older cities of Earope and look very pictaresque. The barns, etc., sre also surrcunded by trees. It struck as that living among a lot of trees libe that mast be damp and unhealthy, bat the appearanos of the Miessre. Birrell contradicts thet idear The old gentleman is, we nnäarstand, upwards of eighty years of age, bala and heariy. The son was one of the first to import Cotsweld shoep into this country, some cighteon yeare ago. It rias from his importation that the best flocks in the conntry rere formed.

Thins wian of the fuest fomot to bo foume in $\lim _{i \rightarrow 2}=$

450 aores, situated on a high tableland, overlooking a beautiful valloy to the sonth-east, and com. manding an extensive vien of Lake Ontario, from whioh it is distant about nine miles. The farm buildings are pory extensivo, as indeed they necesearily must be to accommudute the large namber of cattle and horses kept by thoee gentle men. The house is a very fine one, built of stone. The surronndings give an idea of prosperity, and remind one of the well-to-do proprietary farms in England managed by those who are there styled gentlemen farmers. Mr. John Miller is one of thoso bluft, genikl, hoarty men with whom a porson immediately feels at home, and you know that when he extends his hogpitality ho means it. Mr. Miller first came to this cuantry about fifty years ago from Scotland, and his many risits to the Old Country enabled him to bring out mang thinge not to be fuund on other farms, for instance, peacucke and hens are to be seen strutting proadly aboat, also some pretty English pheasants, while in the house Eaglish skylarks trill forth their beautiful asoluily. While at this establishment it would nut take a very great stretch of amagination to fancy you had been suddenly trauspurted to some parts of Cumberland. Building stone is here very plentiful. Mr. Miller has erected several stone fences with the material gathered from his fields. He keeps on aduing to them year by year as the frost forces them ont of the earth. This is a far better methed of disposing of tho stones thad leaving them piled in the fields. It may be rather costly, but it makes an everlasting fence.

As importers of Clydesdales and Shorthorns Mressrs. Millar's farm stands at the top of the tree. Their name is well known among stockmen in Canada and all parts of the Cnited States. Their importations hare been very numerous this year. They brought out seven ball calves, the pick of MIr. Cruikshank's herd, being low-legged, beefy cattle, ten yearling Clydesdale stallions, two fillies and one spring colt; also nine Shropshire sheep of superior merit. We were shown the horses. They are a graud lot and will be hard to beat. The finest of them hare the makings of superior animals and one of them is certainly about as perfect a modei as can be found, and with ordinary luck will make his mark wherever he goes. Want of space forbids us giving a detailed account of all the Messrs. Miller'c stock; bat Fe cannot pass unnoticed the splendid threc-jear-old bull, "Victor Strathallen," roan, level and short legged, a perfect beanty. Forty Shropshire ewres form the breeding flock on this farm. We were sony to bid adiea to so many pleasant surroundings and hope again to pay them a visit in the near futare.

Oar next visit was to

## 3II. WILLIAM Hajor, FBITEVALE,

Whose farm is about a mile from the village of Whitevale, to our mind one of the prettiest villages in Canada. As the name implies it lies in a vale, and was formerly called rajorville; but MIr. White, purchasing most of $t$ e property, changed it to the name it now bears. A person driving is unarrare of its presence till he sets close to IIr. William Major's place, the highest point in the locality being about 600 feat abore tha level of Lake Ontario. About six miles distant from here there is one of the most extensive viems to be found in Canada To the norilu-west the ligits and spires of Toronto, and to the northexst Urbridge can 43 seen. These places aro ebout thirty miles distant, while down in the valley the village of Pickering neskles, and the town of Whitty; slthough thirteen miles amaj, seema cios at hand, with the tornship of Darling. ton besond, end Burrmanville, Ňerrcisilo sad other tersas in the distance forming a picince that roald
delight the eye of an artist. Few of the citizens of Torunto who travel long distances in search of the beantiful are amare that such lovely soenery exists almost at their omn doors. So strihingly beautiful is the locality that many wealthy persuns rould give fabnloue prices tu possess it cruld it be trausported to anuther clime. Mr. Major's farm $i_{H}$ distant from Pickering Station on the G. T. R. about four miles and about tro and a half from Green River on, the C. P. R. Mr. Major is another Shorthorn breeder and keepa two very fine pure-bred Bates bulls for the use of the neitighbouring farmers. Although Mr. Major's buildiugs aro not 80 extensive as some we met with on our trip, jet they are very compact and convenient, in fact " mooh in little." The stuck is for the most part liept in loose buses, Mr. Major haviag an objection to tying ap animals that dun't get much eserciso. A raised gangway rans letreen and abovo the boxes, the animals are fed from above. There is the same arrangement in the sheep pens, on, except for dairy purposes, there is no uccasion to distarb the stock. Mr. Major rather prides himself on his buildiugs being 80 handy, these arrangements certainly doing away with a lot of labour. As a breeder of Shropshires this gentleman's name stands high, his breeding fluck numbering about shirty ewes, all first-class stook. He is a great beligver in growing plenty of turnips and other roots ("W. R. C." to the contrary notrithstauding). Perhays нe may somo time give his remarke, based not on theory butexperience, on the adrantages of growing roots. This year he has grown about 9,000 bushels of mangels and tarnips from fifteen acres.

## THE FARMER'S HOME IN WINTER.

A great deal can be done before winter sets in to increase the comforts of the farmer's home during the inclemencies of winter. Farmers, living in timbered sections, find winter mach more severe than when a large portion of the forest still remained to breab the force of the wind. Whetever the thermometer may shom, every one knows, from experience, that we suffer more from cold when it is windy than when it is still. The wind changes the air around us so rapidly that the heat thrown off from the body is carried awsy and, consequently, the animal heat is more rapidly exhausted. Hence more care is necessary in building, to render rural homes warm and comfortable in winter.

We can remember the time when but little effort was made to provide seasoned fire-wood a year or more in adrance; but many farmers were obliged to burn green rood through quite a portion of winter. This was very poor economy and the cause of a great deal of unpleasantness. We can mach better afford to employ the air and sunshine to evapurate the Fater from our fire rcod than to use a portion of the fuel to do it, besides, there is the discomfort of maitiug for green nood to barn to warm ourselves, or for the honsewifo to cook the meal. Mauy farmers havo found coal moro agreeable and econumical to ase in the sitting-room than wood, oren when thoy hare plenty on the farm. It costs very nearly as mach to cut and haul the rood and fit it for the store as to buy the coal, and tiren fresh fuel mast bo supplied several times daring the day with wood, while filling the reservoir of the stovo, once or twice in twenty-fonr hoors with coal, will keep the fire going.

A great deal of cold will get into the farm honse around the outside doors. It Will pay to bay a ferm matulead boands and have a handy mochstio come and brild a sterm-houso over snoh doors. The firstcost nitil nut be heasy and tiscri,
ono will last several yoars. A littlo liating, judiciously applied to shruaken doors and windows, will do much toward oxcluding old Borens when in his fiercest moods. Double windurss will pay in cellars aud perhape in the more exposed parte of the liviug room. Sometimes cunsiderable cold air comes into the room under the base board or throngh oracks in the wall; papering the walls will help the latter, and some kind of calking should be crowded under the formor.
Years ago farmers pere much less disposed to build their houses with an eje to warmoth than townsmen, claphoarde and lath and plaster constituted the external protection from cold; no rough boarding, sheathing with paper or filling in with brick was praotised. They may build warmer rebidences now; but quite a proportion of the farm houses of the land most still ba withont anything betweun clapboards and plaster. Thick building paper is a non-conductor of heat and an inexpensive method of excluding the cold. It might pay to side over many old drvellinge, asing such paper to increase the warmth. It is not simply a anestion of saviug fuel, however important that mas be, but one of comfort and health. In a drelling into which our severe wintry winds can find ready entrance, colds, and diseases growing out of them, must provail to a greater or less extont, and the damage from them cannot very well be estimated in financial terms.

We do nut uverlouk or depreciate the importance of rentilating living and sleeping rooms; we appreciate the ralue of an abundant supply of pure uxjgin and the necessity of expelling from our room carbonaccous and fetid exhalations from lungs and skin; but wo would have the ventilation regulated by windows or other ventilators ander our control. When the ritd is blowisg at the rato of twenty-five to forty miles an hour, and the temperature is from ten to thirty degrees belorp zero, the most urgent question is how to keep out the cold and maintain the proper temperature of our bodies. At such times there is not much question but that enough oxygen will find its way into our dwellings to support combustion in our stoves and in the human furnaces. We have sat in rooms where red hot stoves would nearly roast us in front, while the cold arr, rushing in through spaces between the cleppoards and under the baseboard, through shranken joints or around loose mindoms, would keep our backs chiily. Sach rooms oannot be bealthful, and sro certainly ancomfortable-American Rural Home.

## A PUZZLE WITH LETTERS.

Some time since students of the Boston In. stitute of Technology designed a pazzle which is quite interesting. Given two words of an eq̧usl number of letters, the problem is to change one to the other by altering one letter at a time of the first so as to make a legitimato English Ford, continaing the alterations antil the desired resalt is attained. The conditions are that only ono letter shall bo allered to form each now word, and that none but words which can be found in Eugish dictionaries shall bo ased. Here are sone examples of the changes:

East to West.-East, vast, vest, rest.
Vog to Cat.-Dog, dig, fig, fit, fat, cat.
Soup to Fish.-Soup, soal, soil, foil, fowl, foot, cout, cost, cast, fast, fist, fish.

Road to Rail.-Road, rood, root, coot, coat, coal, coil, toil, tail, rail.
Nilk to Hash.- wilk, mile, male, mate, haie, halfi, hash.

As the evenings become cooler, home amubements will be in or der, end readers of The Rural Cunapuas ars al liburty withato saggesticue un that line.

## HOME CIRCLE.

## IN THE WHEEL-HOUSF.

"You might tes well comoinside here, Johnuy," snid the pilot of one of our large stenmbonts to a boy who stood shivering on the hurricane deok. Tho lad turned a palo, auxious face, and with a pitiful attempt at a emile, said:
"Thank you, sir, bat I thought there was no admittance here."
" Oh , once in a while we let a friend in," said the pilot, kindly, and with a sweeping glanco that took his companion in from top to toe and seemed to penetrate to his inmost soul.
"Where are you bound?" he continued, with a hearty brusqueness from which no offence could be taken.
"I don't know, exactly," the lad anstrered. "I'm going to Boston first, that is-"
"Yes, that's about what I thought," the pilot interrupted, "if you can manage to get there. Let me tell you something, my boy. A man in my position has every opportanity in the world to study character, and as quick as my eye lit upon your face I knew you were running away from home."
The only response to this was a hasty turning away of the head, and a quick, gasping sigh rhich sounded forlorn from one so youry.
"Aud I wouldn't be afraid to wager this steam boat that you have got a mother living, and, more than that, as lind and loving s mother as ever drew breath. You wonder how I know all this," the man continued, his eyes fised on the waste of water before him, and his steady hands guiding the great craft with perfect ease and precision ; " but you carry your mother about in your face, my had, and your eyes are a bad give-away," be added, with a smile. "Now I am going to tell yon a story. You are about sixteen, I take it? Yes, I thought so. Well, I was a year older then I concluded I knew more than my mother and all the rest of my relations, and skipped, just as you have. You feel that you have been the victim of injustice, and all the right in the universe is on your side. That was my case, but I was a fool, and so are you. There is no necessity of entering into particulars; but I was jealous of my older brothers and made myself believe that they wore in collusion to keep me out of money that honestly belonged to me. I wanked some of the property that was oventally coming to me to travel with. I was wild to ses the world, and the ridicole of my brothers and my mother's apparent sympathy with them made me desperate. Well, one rampas followed another, my mother all the time trying to show me how unjust and ridiculons my demands were, until one day I threw all affection and decency to the winds and ran away.
"Now the point that I particularly want to make in this Jarn, my lad, and which I would give s good many dollars to impress upon othere, is that any fellow with $\Omega$ grain of honest love for his mother in bis heart is pretty sare to have something to regret as long as he lives if he harts that mother by doing what yon and I have. In a moment of auger we say to ourselves, no one cares for us and we care for nobody, and then some awful trouble comes along, and we find too late that we have only deceived ourselves. Now I tramped up and down the earth for six months without sending a line home, or hearing a word from home, and at last there came a day when sickness from exposure and labour besond my years and my strength darove me back; bat not to stay or make myself known to any one, but to take-or, I should rather say, stesi-some money. or some raluables which I conld convert into moneg, to bridge over the present emezzency. You kad no ides that yon teera falking fith a man
that had been tempted like that, oh? Well, I said to myself that I was simply taking a small share of what was mine by right. There wero $\$ 10,000$ hold in trast for me, and it was a groat pity if I could not have enovgli of it to purchase food and medicine. I will do mysolf the oredit to say that there did not appear to be any holes in that argument thon, and that in every other respect I was an honest lad.
"It requirod no skill to let myself into my mother's house. To slip the oatch from one of the back parlour windows was the work of a moment. My mother always kept her monos in a desk in the eitting-room, adjoining her bedroom. I had written a note to leavo there, telling her my reasons for appropriating the monoy. Good heavens! It makes my blood ron cold as my thought goes back to the horrors of that night As I softly raised the window and crept into the room I was struck, it seomed to me, with the chill of death. I had no foar of being caught-I knew the house too well for that-and I was never in my life very muoh sfraid of anything or anybody. It was a chill that seemed to strike clear through me, causing my teeth to ohatter and my heart to feel like a lamp of ice in my bosom. These were novel sensations, and I tried to analyze thom, but it was of no use. I found that I literally did not dare to move hand or foot in this awful blaokness. I knew where the matches Twere formerly kept, and could have reaohed them by a couple of steps, but how to take these steps was the question. At last, by a supreme effort of the will, I groped my way to the mantelpiece. There were tro matohes in the box. I struck one, and my hand shook so that I was afraid it would go ont before I could look about me; but it lasted long onough, my lad, to show me a sight which nearly killed me on the spot. Just in front of me, by the folding-doors, was a coffin, and I knew thien that it was the presence of death in the room that had sent such a chill through evers fibre of my being. At this crisis, my boy, I reslized the criminality of my conduct to the fullest extent. In some form or other it always comes home to eversbody but the most hardened and depraved, and it is my opinion that some. where, some time, even these are brought to an understanding of the tortares they have inflicted upon others.
"I must look and see what face was shat away from sight in this narrosy bed, but how could I? They tell as that in great crises people sometimes have a quict and ewful glimpse of all they have done in thoir lives. I seemed to remember everything my mother had ever said to me, all her kisses, her tears, the prayers I bad said at her knee, all my own heartiessness, every mean and creel word I had ever spoken, every single act of dieobedience. I had come to-night to rob her, and had found her in her coffin. But perhaps it might not be. It was not impossible that some one else in the honse could have died, I told myself. Bat no! Some agonizing intaition seemed to tell me that it was my mother, and I had killed her. Ged forbid, my lad, that I should not be able to do some good with this terrible experience! I have faced some dangers since, been in some tight places, but there is nothing seen or unseen that would over be to me what it was to strike that one remaining match and open that coffin lid. With a desperation which no pen or tongue can describe, I forced myself tomard the folding-doors, and then, after a panse in which the beatiag of the heart sonnded in $m y$ ears like the roar of artillery, I ignited the match and raised the lid, bat the little blaze ouly flashed ont for a second, leaving me in total darkness again. Then the lid foll from my hasd with a sharp cliol, and a momman aficrward my eldest brother and $u$ friend rushat in aud dincovered. me.
"'Mother ?' I garped, pointing in my unatterable agony to the oofin.
"'Alive and well,' was the joyful answer; and that ras the last I knew for soveral deys.
"The poor lifoless body that had shown me where I stood in referenco to my mother, as well as in the oategory of orime, was that of a distant relative who had fallen tll and died at our house.
"I made a clean breast to my mother and she forgave me, and loved me and potted me as only. mothors know how to do. And now, my boy, I want to ask you to go home. with me to-morrnw and see my mother, the loveliest old lady on the continent, and let me telegraph to your mother in the morning, and then you can go baok with me on the next trip. What do you say?"
"Ill do it, sir, and may God bless you for your kindness!" the boy answered, wipiug away for the first time the tears that rolled down his face like rain during the telling of this true and tragio story.
AVOID JERICHO.

So you have got yourself into trouble, my son 1 Gone a little wrong, have you? Yes; well, that means, you know, that you have gone olear wrong, because there is only one kind of right and one kind of wrong; there is no magwumpory in morals, my boy. And you've had such a hard time geting back, that it's made you a little bitter and cynical, and you think all the world is rather hard, and selfish and pitiless, and especially severe on you? Well, I wouldn't feel that way at all if I were you. I don't think I evor did feel that way, and I know more ebout it than you do. I've been farther down on the Jerioho road thau you. Went down there to let my baard grow. Great town for toots, from way back. It's a bad country. Never heard of hat one good woman in Sericho, and ahe didn't move in good society.
But, my son, it isn't society's fanlt that you got into trooble. You know what the Jericho road was before you went down that way. You knew there was a carse on the town. You were safe enough in Jerusalom. Why didn't you stay there? Don't feel bitterly toward all the world because jou fell among thieves and got cleaned oat. It is a kind, good-natared, forgiving old world, if you give it a cbance to be forgiving. True, it doesn't always lonk that way to a fellow in tronble, becanse then the fellow is apt to lools at the wrons people.

You found on the Jericho road, say six or eight thieves-that is, half a dozen professionals, and the tro amatears who passed by on the other sideand only one good Samaritan, and naturally it seems to you that the leaven of gocd is utterly lost in that great mass of rascality and hypocrisy; but, bless yon, my son, in the great, honest, living world that is trying to do right, and trying to lead men to better things than Jericho excursions, in the only world that really loves and cares for just such young fellows as yon, in the real world of men and women who deal with the young man all the more gently when his smarting wounds are deepest, the one good Samaritan outweighs a regiment of those villains who beat you, and robbed you, and passed you by on the road to Jericino.
Nover mind the priest and the Lervite, my son: They were going down to Jericho, too, you remember: that's the kind of priests they were. and one closing word, my son. Unless you aro stronger and smarter than the thieres down Jericho way-and I gress magbe you are not, very few men are-why, you beep off that road. You stay in Jerusalem, and you'll have more meney and less hendaske.-Burdethe, in Brookikn Eagla

## EYES THAT STOLE MY HEART AWAY．

Arranged by $W$ ．


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CEORUS
Eyes that stole．．．．．．．．．．．．．．my heart a －way，．．．．．．．．．．．．．．．


## YOUNG CANADA.

## LITTLE BARARA'S A YAIN.

$\triangle$ mother atood by her bpinuing wheel,
Winding the garn on au averont roel;
As sho counted tho thread in tho twinght dim,
Bho murmured tho words of a quamt old hymn:
"Whether wo sloop, or whether wo wake.
Wo are His who gave His lite for our sake."
Little Barbara, watching tho epinning-whool,
And beoping time with he: too aud heel
To tho hum of the thread and hur mother's song,
Sang in her own sweot words cre long-
"Whethor we sloep. or whether we wako,
We aro His who gave His life for our sako."
That night in hor dream as she bleoping lay, Over and over again the rcenes of the day Camo back, till she seemed tw hear agan
The hum of the thread and the quaiut uld strann, "Whtther we slecp, or whether we wako, We are His who gave His lifo for our sake."
Next morning, with bounding heart and foot, Little Earbara walked in the orowded streot; And up to hor lips as sho passed along
Mose tho tender sords of her mother's song"Whather wo Aleep, or whether wo wabe, Wo are His who gave His life for our sake."

A wanderer sat on a wayside stone.
Weary end sighing, sick and lone;
But ho raised his bead with a look of cheer
Asthe gontle tones fill on his ear-
We aro His mho gave His lifo for wo sake,
We aro His who gave His lifo for our salo."

I some plan to talk about to her own chosen friend / her face would be nice to look at. Do not youq"

SN'ARTING A DOG TRAIN IN TAL NORTAWEST.

Next summer one may travel across the Canadian continent from ocean to ocean with all tho comfort and speed that a well-equipped railway can supply. What a contrast this is to the mode of travel which has existed in the Hudson Bay Territorics in the North.West from the time that the first adventurous hunters and trappers set out on their hazardous expeditions. The dog-train of the past is very different from the railway train of the present; but it was very useful in its dey and was often a pleasant means of travel. Besides, dog-trains did not collide, nor go over embankments, and they ran no risk of boiler explosions. Nevertheless there were Urawbacks, as the following engraving shows. One of the dogs appears to be very unwilling to get into harness.

## HER OFF FAULT.

"It is all her own fault. Let her pout it out." The girls were on the way to the play-ground, I and a happy group they were. Euch one had
"Do soe the old cross-patsh!" said Jane Elliott. "I would not have such a tompor for the world."
"Do not point your fingor at her," said Mary Armstrong, who was always considerate and kind.
But sweet Eva Perry could not onjoy herself whon any one was in trouble without at least trying to impart comfort.
"I mean to speak to her," she said, hanging back as Ida Lowis tried to hurry her away. "I mean to ask her to come with us."

Then Ida put her hand on Eva's arm and said:
"It is all her own fault. Let her pout it out."
Eva refused to yield to Ida, dearly as she loved her.
"It makes it all the worse for her that it is her own fault," she said. "It must be dreadful always to be so cross and unhappy. I pity her."
"I do not pity her one bit," sard Ida. "She might have a good time if she would. And I do not want her to come with us, either. The very sight of her face spoils all cur fun."
"But if we are kind to her and love her very much, perhaps she may not be so cross," said Eva.
"If she would only smale and be good I think


## SLEIGHING IN THE NORTH-WEST.

Toiling all day in a crowded room,
A morker stood at her noisy loom
A voico camo ap through the censeless din,
These vords at the window floated in:
©Shether wo sleep, or whether wo wako,
We are Ela who gare His ufe for our satse."
A mourner set by her loved one's bier,
The sun secmod darkened, tho world was drear;
Bat her sobs Fere stilied and her cheok grow dry,
As sho listened to Barbara passing by
"Whether we slcep, or whother wo wake,
Wo are His who gare His Lifo for our sake.'
A safferer lay on his bed of pain,
With burning brow and throbbing brain;
The Lotes of tho chuld wero heard once more
As she chanted low at his open door-

- Whether we sleep, or whether we mato,

We sro His who gare His lifo for our sako."
Once and again, as the day passed by,
And the shades of the evening-timo dren migh,
Like the voico of a freend or the carol of birds
cxme back to his thoughts thuse Nelcume worde
To
Alike in all hearts as tho years weat on,
The infant's roico rose up anon,
In the gratnfal worde that chacrnd their way
Of tho bymn littlo Barbara sang that day -
"Fe aro lis who garo His lite for onr sate."
Perhsps when the labour of life is done, And they lay down their bardoni ono by ono, Forgetting forover thore days of paid.
They will tate yf togethar the 6 woet refrainthectian: we sleop. or whether wo rake, We sro Ely whe gavn Iis life for ota elise"
as she hurried down the stairs. All were bright and animated except one girl who passed along a | little apart from the rest, and looked at them all with a sullen, discontented air.

The girl's name was Effie Lee. She had a jealous, suspicious temper, and although she was in very comfortable circumstances this scowl was too often to be seen on her otherwise pretty face. 1 At home sbe was well cared or and kindly treated, but she was never satisfied because sho fancied that she was not quite so much indulged as her younger brother and sister were. At school sho was always on the watch for some slight either from the teachers or her companions.

On this day Effie had lost her place in the class, and although she could not deny that she had ' missed her lesson she was angry. She accused Martha Gay of cheating, and tho teacher of partiality because she had allowed Martha to go above , her. She had been ove of the first to leave the room when the bell rang, but liugered on the stairs and allowed the other girls to pass her without speaking.
"How hateful she is!" said Martha, as she glanced back at her.
"Never mind her," zaid Martha's friend; "she is not worth miading."

A loving heart is always prompting Eva to kind actions. A jealous temper carries its own punishment with it.

## HEROISM AT HOME.

How useless our lives seem to us sometimes ! How we long for an opportunity to perform soine great action: We become tired of the rontine of home life, and imagine we would be far happier in other scenes.
We think of life's great battlefield, and wish to be heroes. We think of the good we might do if our lot had been cast in other scenes We forget that the world bestows no such titles as noble as father, mother, sister, or brother. In the sacred precincts of home we have many chances of heroism. The daily acts of self.denial for the good of a loved one, the gentle word of soothing for another's trouble, the care for the sick, may all seem as nothing; yet who can tell the good thoy may accomplish? Our slightest word may have an influence over unother for good or evil. We are daily sowing the seed which will bring forth some sort of harpest. Well will it be for us if the harvest will be one we will be proud to garner. If some one in that dear home circle can look back in aiter years and, as ho tenderly utters our name, say: "Her words and example prepared me for a life of nsefulness; to her I owe my present happi| ness," we may well say "I have not lived : 1 ram."

## giliserlmuedus.

Tue man who robs a clothes line is not recessarily a laundryman, lut he generally takes in washnng. Yes, and he is likely to be ironed if he is caught.
A Sung Indiontion. - Waonepor tharo aro Yestoring soros, blotohes, pimples and boila appearing, it indloates an oxtromely bad condition or the blood, which should odeansed by that lost of all medi--inos Burdook Blood Bitters.
Wuat in the Old Version was called "leasing" in the New Version is termed "lying, or falsehood." The real estate agents
have brought this on themselves. have brought this on themselves.
$\triangle$ Sad Cask.- The poor viotim of Ohronio Dyspepsia apparentis saffers all tho ille of life, living in continual torture. Rogulato the Livor and tho Bowels and tons the
Stomaok with Burdock Blood Bitters and the dyspoptio's trouble is soon gone.
Phrenologist: "Your bumpofimagina. tion is abnornally large, sir. You should Write poetry." Citizen: "I do write poetry. Only yesterday I took a poem to an editor; and that bump you are reeling is "Wher Den on it so hard."
A Ozatan Rssout.-In all disturbed setion of the Stomadi, the Bowels, the Liver or the Kidneys the resalt of taking Burdors Biood Bitters is cortain to afford prompt benefit to the safferer. Burdoak Blood Bitters cure when other remedios fail.
A young man sent fifty cents to a New York advertiser, to leam how to make money sast, and ras advised in reply to glue a five
dollar greenback to the bottom of his trunk.
Faral Artacss.-Among the most prevalent, fatal and sudden sitacks of diseases, are tho ${ }^{-1}$ incident to the Bammer and Fall, suoh as Cholora Morbus, Bilione Colio, Diarrboss, Dysentery, oto. that often prose fatal in a fer hours. That over reliable Temedy Dr. Fomler's Extract of Nild siravi-
berry, shoald bo at lynd, for use in -mergenoy.
Stable-kzeper: "By-the-way, shall I Put in my extra buffalo ?", English Stranger: 3now? Er-er rather not drive a buffalo first time, you know."
A Spredry Cone.-As a apeedy onre for Dgsentory, Oholera Morbas, Diarrhera, Colic, Stamps, Sick Stomach, Canker of the Stomach and Bowolg, and all forms of Sammer Complaints, there is no ramedy
mora raliable than Dr. Fowler's Ex'ract of morra raliable than Dr. Fowler's Ex Eract of
WFild Strawborry. Deqlers who sell it and those who buy it are on matasl gronnüs in confidence of its merits.
Country girl (addressing a robust tramp):
" Why - don't you co to work ?" Tramp "Why - don't you go to work ?" Tramp
flooking kungrily around) "I would if had the tools." Country girl : "What sort of tools?" Tramp: "Knife and fork."
"Yes," said a lady, when interviewed on the subjert of servant giris, "I find that the Swedes make the most capable and trustTrorthy servants. I never had a Swedention."
Hramest Prusse.-Tho well-known drug firm of N. C. Polson \& Co., of Kingston, Writes that Dr. Powier's Extract of Wild Stramierry has long beon considered the best remody for Sammer complainte in the market, and edds that thoir castomars spaak In the highest terms of its marits. Wild Stramborry is the best known romedy for
Oholera Morbas, Dyzentery and all Bowel Complera Mor
"Wuat do they do when they install a minister?" inquired a smail bof. "Do "Not a bit," said his father; "they harness him to the church and expect him to draw it
Professor (looking at his watch): "As We have a few more minutes, ishall be glad to answer any question that anyone may wish
A limtre Scotch boy, on his bcing reswhich he had fallen, expressed great gratitade, saying: "I'm so ghad you got me oot. What a lickin' I wad have frae roy muther if I had been drooned."
A gRand jutor, hatigg 2pplied to the judge to be excused from scruing on recount of nus daafaess, the jodge said: "Could you not hexr my charge eo the jury, sir?" "Yes; jurorar "bot I mulln't make any sense of it." was "ascushd"


## Home Items and Topics.

If yourcall your orn fant.
If you ranalturiok whau you can
Got hop bitore that nover-Fail.
-Tho wonkost woman, smallest ohild, and sickeat invalid oan ure hop bitters with safoty $2 a d$ groat good.
-Old mon tottoring around from Rhoumall bo bidnoy troublo or any weaknesy will ters.
ar sly wifo and daughter were made bealthy by tho use of hop bitters aud I recommend them to my poople - Methodist Olorgyman.

Aak any good doctor if bop
Bittora aro not tho bust famully modicino On oarth III
-Malarial fevor, $\Delta$ gue and Biliousness, will leave overy neighborhood as soon as hop bilters arrive.
-"My mother drove the paralysis and noaralgia all out of her ssstem with hop bitters."-E゙d. Ošuço Sun.
Keep the kidneys healthy with hop bitters and you need not fear nickness."
-The vigor of youth tor thy aged and

$\left\{\begin{array}{c}\text { Hop Bitcorsa } \\ \text { The allay all troulios inoldont }\end{array}\right\}$
-"Tho best periodical for ladies to take moathly, and from which they will receive the greatest beacfit is hop bittera.'
-Thonasnds die annually irom some form of Eidney disease that might havo been prevented by a timely ubd of hop bittors.
-Indigeation, weak stomboh, irregularities of the bowels, cannot exist wheu hop bitters are used.

-To proinco real genuine sleap and child-like repose all night, taxe a little hop bitters on retiring.
Tse Nono ganuine Fithont a bunch of greon
 pabrano.
namo.

CONSUMRTIUN OURED.





 dearino it, this rocipo, in Gormargo, Fronch or asing. Sont by znall by gddressing with stawn

## 

Hair Renewer.
Seldom doos a popalar remody win such a atrong hold upon tho public conflence as has HALL'S Hain RENETER. The cases in which It has accomplishod a comploto restoration of color to tine isis, and rigorous besith to the ecalp, aro innumerable
Old people like it for its nonderfal porror to restore to thelr rhitening locijs thelr original color and boant5. Midddigagod pooplo liko it because it provonts thly finm geting bald. kecps dandrutr emyy, sud factios tho balr grow thick and strong. I queg letiles liko it as a dressing becauso it giras tho halr an beantifal gloses lustre, and cnablos thom to dress is in whatever form troy fish. Thas it is the farorito of all, and it has becomo so simply becaraso it desappolats no ana.

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## [mosk ties neit tonk bon.

For nearly filty yeare, the Pianos madt br Wm. Rnabo \& Co. ot Ealtimoro, and 112 gith avontu. New York, havo boen bofore the publio. Their fatao for singing quality of tono, ease oretion, durability anil
vorkmanehip rens pa ano establiahod
 tion ts paid io the firm to dfary dotail. In the oonstruction of thoir Piaft tho beat the oonetruchos ot thoir Pinmy tho beat Ebony aro used. Tho dranness of tivescale is marrellous and the upportines espeocally aro as clear and sparkling as a bell. Krabe \& Co.'s Pianos are usod at Dr. Damrobeh's concarts. The firm established an agonqy in Mexico not long abo, and orders are alroady pouring in.

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With asso anid raptalty. Prico only
 R priso ARean wanted appis torodrocicarto

## sxientific aun wisfiut.

Pear Marmalade-Skin thepearsandboi till very tender; weigh them ; take half their weight in sugar, put in a saucepan with a little water nnd boilit, skimming ir well; boildir a thich symup is made; adathe pulp of the pears
and litile essence of cloves. it is very nice for filling tartlets.
Rundoce Blood Bitters is tho most ratara and agreoable laxativa and rognanting tonio or Constipation of tho Bowels, and nopa ails to bo beneficial
Mrs. J. Frasor, of Piokoring, was cared of goneral debility by liurdosk Blood Bifters. for what it did for her case.
Bread Pancares.-Take stale bread and soak over night in sour milk ; in the morning rub the yoiks of two egss, one teaspoommior sair, riger and Aour sough to make a bite littie hicker than for buckwheat cakes; sdd littie thicker than for buckwhert cakes; sde
last the well-beaten whites of the eggs and bake.
Berf Cakes.-Chop some beef that is rare, with a little fat bacel or ham, seasos with pepper, salt and a little onion, mix wel and form into small cakes. Fry them a light brown and serve with a good gravy made of soup stock, thickened with brown flour.

My castomers bay that Bardook Blood Bitters is the best blood purifior in th market," thas writes Wm. Look, o MoDonald's Corners, Ont.
Bordoce Blood Bittors regulatos the secrelions, pives strdngth to the debuntatad, orauicerto all hamors of the
Washing Womlezis.-To wash wool len goods so that they will not shrink, pu three or four pails of cold, soft water in tho washtub; thed take two tablespoonfuls of borax and one half pint nf soft soap, dissolve on about one quart if hirt water: when thoroughly dissolved stir into the tub of water. fore washing. Rinse in cold rin water. Bright colours should stand but a short time.

I have never sold $a$ remedy that has given buch entire satisfaotion as Bardoar Blood Bitters ; I soll mora of it than of any McGarvin, drageist, Acton,

Is the stomach becomes reak and faild to perform its digeative functions, Dyspepsis, with its long train of distressing symptrms
will follow. Care it with Burdock Bloun will follo
Bitters.

Apple Marmsalade.-Take nice, sound russet apples, pare and core them ; cut in small pieces, and to every pound of fruit add one pound of sugar; put the sugar to boil
with enough water to dissolve it in a preserv. ing tiugh walce so assolve it in a proserpounds of fuit one large lemon $r$ cer until the syrup gets thick then mise mples and boil until it looks clear. This is very uice made half quince and half apple.
"I have used Burdook Blood Bittars for attacks of bilious headache, and it slmsya gives immediste relief," Bays J. White, Hour and foed merchant, Bivereide, Toronto,
Brovery down conditions of the kystora that require a prompt and permenent tonjo to bnild np the blood and restoro failing
vitality will be benelled at once by Burdcok Blood Bitters.
Tosiato Soup.-One dozen ripe tomatocs, about one quart of weak soup stock. If
the stoch is strong use less, adding vater to the stoch is strong use less, adding rvater to
make the required amount. Boil about one make the required amount.
hour together with one onion cut up. Just before zaking up rub two heaping tablespoonfuls or carcfully into inio a little water, and stur carcfuilly into the soup; allow it to boil until it thick ens. Strain all through a wre sreve, scason with a tabiespoonful or butter, 2 littie salt and red pepper. Sice a
lemon very thin, put it into the botiom of the lemon very thin, put it into the botiom of the
turen and pour the soup over it. Serve at iurcen
once.
Cataran.-It is an open bscret that mosi phyercuans can do littlo or nothing in the way of ouring gatarrh. Wo do not wish to throw ang lacredit apon the profession, bat the flci remaing. A Toronto physician 5ots botitlo from then tho other day for his wife and danghter, He said if this curos
them I will Dotbankfar outwe physicians hare give ns thetitestimony he to tho personal bonefit they Varivod from (i). Carzon's Catarth Care so geat is tortecass
that drupgists are autionizos to refanctike monomy if it does no good. If ren eaffor, the way to a curo is open. Prtoce Ono Dr. G. A. Caragis risical Co., Torone

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To thoso contemplating buying a Piano or Organ-buy a good ono. of course wo Fould like to hare you bay one of oars, for thore are nono better, and our prioes aro as
reasonsble as possiblo for insirnmonts of the higheat grade, still, if you don't buy cars highest grado, brge yon to bay a good one. Don't buy
Fo an ingtrament becanse the price is low. In 99 casos out of 100 that is proof positive that the inatrmmont itself is a poor oue. Pay a fair reasonable livsag price and get an instrament that fill Lea source of pide and zatisfaction for your ilfatime. Romem. ber the dealer in inferior goods oan fisags gndersoll the honest doaler in first-classgoods Don't torget the fate of hundreds of poor dapes who have bought ohesp instraments. The fate of the several mauufacturers of oheap instraments who have failed during the yass 12 or 18 months oughe to be sailh. cient to warn any intending bujer against this grade of goods. Two jears ago these men were apparently on the high road to pealth. Thuir prices wero bo low that bayern were attracted. Thos boasted shat they sould not fill sherr orders. To dsy thos are either entirely out of baniness or in a bankrapt condition withont trade. Why? Becanse their instraments fere so poor that in a year or two bugers wero made psinfully sfare that they bad been wofully swindled, and their ncighboars and the putlio gencrally prufited by thoir lesson ana quit buying at once. Don't forget that the fools are not all dead jet. Non't bo opgyourself. Rempmber that if gold dollars were advertised fur sale at 50 cents ench there would be many oredulong peuple who woald send their money ati bo swindied. Sorvo them glat, would bo : ur perdict Anybody mix know that a first-class piano or orgal coula not be sold at less than cost oi manufacture. Buy only from paskers who - have ostablished a reputation/for superior tinsiruments. The DOMINZON PIANO -HND ORGAN COMgANY haye ths reputation. Botter pay f litale too much than too little. Err of the bafo side, adalurs in first-clasAlinstraments vill not isk you any more than living yrces. Each of our instruments is waranted for five Di our instruments/is Waryantld for five instraments wofrants then for more than five jears; any anyone who warrants for six or sorgy shars does/t as a catchpenny device forf) beouring tr da, and showa that his insty fonents will fot sell on the same besis as first-olass instruments. dn extra yent or for of narfanty is shrown in 3 ust sear or gron oi nargants is shrown in zust ton. Anogis defice in to ofler instruments ton. anoner doyice in to oler knowing that the prowost inftument when now nould ramain in far condition for a gear or so. We do not ask you to bay oar wstrameuts on ahort test inala, bat un the stredgth of tan years' test triase, which they have alramdy had. Ton gears' ase of our instrazoents, supportevi uy the undursement uf uval zaents. sapporteu uy the undursement uf was
15,000 parchasers in all sectiuns of this conntry and Eurcipe. tugorher with the tortimony of the most oriticsi connorsseurs end the greatest artists, ought certann': io be a Guarantec of excellenco snch as no sano ferion can reasonsbly ignore or doubt
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.Vith the lasue for Jaruary, 1886, important changes will bo mado in the literary charactor and typographical appaaranco of Uspincott' Mragazino, which, while more thang maintainlog tho former standards of exceilonce, will it it oxpected, materialy in
comeo it popularity and widen tha sphore of rafiluers. The distinctive features of Lip. piesotit's for the coming yeas will bo as Iollous mill be a live porioulical, interestin iscelf In all the corront topica of the day, licerary artiotic political nan social, and enlisting in tueir discussion the abloat pons in England and America. A inir hoanigg will bo docorded ming side of of a controverey, thongh the neultality
It will be especially strong in fiction. A naw aovel entitled Hope" by W. F. Norris to or of thimothe cloverest of therising authors of England, will run throigh the ysar, acoompanied by a brilliant serial, deal ing with the literary and dramatio life of New Yar City, from tho pan a wricar who vers touch reveals an intimato soquaintarice Tith the socnes which he describes.
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