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Toronto, September, 1883.
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## RUURAL ITOTES.

Tae secretary of the Manitoba Board of Agri culture estimates the area of the wheat.crop in that Province at 250,000 acres, and the produce a little over $6,000,000$ bushels. If this quantity is realized the Province will, for the first year in its history, have not only enough for home consump tion, but a surplus of about $2,500,000$ for the forsign markets.

Mr. J. J. McHcgn, inspector of tho North-West Indian fainn, was recently in the city of Ottarpa. He says thu tro Indian supply farms established in connection wilh Treaty Seven have been clored, the red men being now able to till the soil and supply themsolves with sufficient seed. The position of inspector has also been abolished. This will effect a Eaviag of several thousaud dollars per annam.

A diskase has this year appeared in the potato fields of York township that gives some uneasi ness to farmers. It is not the rot proper, but sowe kind of blight, and during ac last two months it has spread very rapidly. Market gar deners believe it is the same as a blight which did great injury to the potato crop of England some years ago. Whatever it is, it should be thoroughly investigated.

Prof. Bnows, of the Mrodel Farm, has a good opinion of the natire or common cow of Ontario. For ordinary dairy purposes he says it takes a high placo in ralue of anncial produce, and is peculiarly the dairy cow for the country. It is certainly a good animal, but if more care were taken to select the best for breeding purposes, it might he very considerably improved. Only the calves of thoso possessing the best milking qualities should be kept.

Ose of the objections to barbed wire for fences is its cost, but there is a prospect of its becoming considerably cheaper before long. Tho monopoly that has hitherto controlled all the patents is being forced to defend its claims in the courts, and in several cases the decision has gono against it. With choaper wire a much larger quantity of it will be used, especially in the older sections of the country rhare timber for rails is getting to be scarce and dear.

A rIW Holstoin cattle have been brought into Ontario this year. Mr. Scatchend has placed fire on his farm in West Niseouri, and wo hear of a Wate-100 farmer who has impcrted an exual namber. These animals, with tro or three oxceptions, wero imported from Eolland, and are lifely to be heard of in the course of the next
jear or two. For dairy purposes the Holstein cow has an excellent reputation, and tho breed is rapidly rising in favour with farmers on the other side of the lakes.

The Country Gentleman expresses our opinion of the handsome volume recently patlished by Wm. Saunders, of London, on "Insects Injurious to Fruits," when it says : -"The book may safely be pronounced the best work of its kind now before the public in meeting the practical wants of the farmer and fruit grower." Mr. Saunders has written his book in a style that cansut fail to coth nend itself tu all persons interested in the suljuit, and no une interested in fruit groring can affurd to do without it.
Secretary Fisher of the Illinois Board of Agriculture estimates the wheat yield of that State at $16,000,000$ bushels. A member of the New York Produce Exchange, taking Secretary Fisher's own data, and applying them to counties, makes the out-put of the crop about $23,000,000$ bushels. We are afraid that Mr. Fisher is not well up in the use of figures, for in his calculation of totals for the State he makes the absurd mistake of taking the average of county averages. But this is a very common blunder of statisticians. Until very recently it was made gcar after year in compiling the tables of our own Educational Department. The arerage of an average is usually a very misleading quantity.

It is now ahout six yrars ago that Prof Lintner, of Now York States discorered and described an insect that has since become only too well known as the clover midge. It reached the Jake Erie counties of Ontario two years later, and since then has bren rapidly extending throughout the Province. We were shown the other day a
head of clover taken from the waggon of $a$ farmer in from the township of Etobicoke. It was literally alive with tho midge, and of course with such a voracious enemy there is no hope for the seed. The midge is about one eight of an inch in length, of a bright orange coloar, and very lively. The first brood usually make their appearance in the lattor end of Mry, and the second in August. It is the latter which pleys the mischief with the red clover seed.

Tar hay crop in Ontario this jear is a very large one, and the greatar portion of it has been sared in good condition. Lest gear there was an abandance for home consumption, but it appears that this jeer the supply ines been doubled. What are farmers going to do with it all No doutt thoir horaes, car cio and sheep will be well fed during the winter; there is no reason चhy feeding rackes should be stinted. Thim ituelf is no slight
thing, for tho nore likeral tho feeding the better will be the condition of ive stock, and the richer: the inanure heap. During the last two or three years, too, there has been a considerablo quantity of hay pressed and sent to the American markets; but the demand is somewhat limited, and it is possible that our surplus is more than enough to supply it. There is aftor all nothing that pays the farmer so well as to feed his hay crop at home.

Ir is sonetimes very amusing to read the opiniuns of wise men un now implements and inreativas. The Juurual of tir Canadian Iastitute fur Olwiber, iE52, was deruted alinost exclusively w hu Pruviacial Asricultural Show, "hich was held that year in the city of Toronto. In the description of agricultural implements and machinery, we find the following.-"The threshing machine by Haggart Brothers, of Brampton, is a good article; and so is that exhibited by Sanderson, of West Flamborough. Wo think the very long contricance for carrying off the straw is rather a farfetched idea, and must add very much to the work of the horses, without giving any adequate advantage." The farmers of to-day will enjoy a good laugh at the expense of the editor of the Canadian Journal. It would indeed be a strange sight to see one of the old fashioned rakeless threshers of thirty years ago at work in a farmer's. barn of our day.
Clover is for many purposes one of the best crops that can be grown on the farm. But what is to be done if the seed is going to be destroyed by the midge i Some mey, abandon clover for two or threo years and the midge will dre out. The same thing has often been said concerming the pea crop during the past twenty years But somehow or uthur there aro farmers enough in every county to grow peas from year to jear to keep the bug from starving. So it will bo with clover, and the midge will live and flourish unlass, like the wheat midge and the potato bug, the breed runs out in the course of time. True, our farmers are not depeadent upon home grown seed; it may be importod from abrosd. But foreign grown seed is costly, and if the price 15 high the quantity sown fill be limitod. Why may not more attention be paid to the cultivation of Alsike clover 1 It is a better fodder than the red; it grows laxuriantly in suitablo soils; it requires little attention after tho first scoding, but will continue to propagato itself. Besides, it ripens tho seed in the first crop, and is much loss liable to injury by the midge than the red clover. It 28 true that Alsike clover does not flourish in a higb and dry sandy or gravelly soil, or even in a thoroughly drained clayey soil; but there are many localitice to which it seems admirably suited, and we think that fanmers would do vell to give it a more general trial.

## FARM AND FIELD.

## the cultune of wheat.

Some twelvo or fifteen years ago an impression prevailed-indeod the results geemed to ostablish the faot-that wheat culture in Penneylvania, liko fruit culturo, had run out, and farmers' olubs and agrioultural papors went full tilt to disoussing the reneon of it. But subsoquently both took a turn, and we should liko to know to-day if any ono dares to say that both wheat and fruit onn not be raised as successfully hore as in almost any othor State. Some said at first that it would last only a little while-now and then we may get along well enough, but who can bay how long it will last, or in oase failure should come again what we are to do about it. This was antioipating an evil which there was no reason to believe would soon occur again, and has it had not yet returned we hear no more about it. The gramblers are quiet; they take with thanks we hope, all they recoive, and may entertain tho best expectation for the fature.
The greatest enemy of the wheat crop is to much water. It may be said that the whent root is more susceptible to injury from too muoh water than many of us believe. To be sure, there is a gencral impression that an overdose of water is bad, but the full force of the impression is seldom felt as it deserves to be. Water laying around roots does not slways kill the whoat plant, but many of the roots are injured, and the fer that are left are not able to do the work that all were intonded to take part in doing. If any one will dig up a wheat plant in spring which has stood all winter in a vet place, he will see exactly how this is. Only living roots close to the sarface, and below this may bo injured.
The English seem to anderstand this water injury better than we do, and provide against it on wheat lands by numerous furrows, in some cases of flattish land one-twentieth of the whole area may be counted as surface farrows; and yet with this waste of ground, as some would say, they beat as considerably in the number of bashels they get per acre.
It is supposed by many that whether we have a. good wheat season or a bad oue depends more on quantity of rain we get at various seasons, on the condition of the ground, or of the plants at the time rain falls. If it goes away through the ground rapidly, it is good for the plant, though in large quantities; but if it lies long it is an injury. Thus, if a piece of land is rather flat and the ground is frozen deep and stays frozon after the upper has thaved, and rain or melted anow let in the frozen bottom keons the water from passing array, and so injary results to the roots. On eloping ground the water passes out on the Iower position, and in these cases not muoh injury results.

There is no doubt many causes which conspire to injure crops; bat this overdose of water is very likely to bo one of thom, and it will be wise for ell those who are interested in wheat caltaro to talke ovory precantion to carry water which may fall on the land. Open ditches or piough forrows, as many do; they are very asefal to this end. Attend to this carefully and iz will bo found that wheat cultare in Pennsylvania will be as productive as over it was, and will continue to bo so.-Germantorn (Pa.) Telegraph.

WILL DRAINAGE PAY? -
"Four years ago some one handed me a paper on this subject. I read it Tho articlo which attracted ny attention most was one about 'Thorough Work' in drainero, and what might bo expectod in the way of a per cont. annaally,
by investing money in Arainage. I thought it over and ovor. I had at that timo three or four hundred dollars by me, and it was not making me anything, and I could not roadily loan it at a good intorest, and young stook was hardly to be had at any prioe. Finally I oouoluded to underdrain a trenty-aore field near my houso, and I thought, 'Woll, I will do it right.' To get a good outlot I had to dig frst an opon drain down the road about oighty rod. But having reached the point whoro we wishod to ontar the field, we commonced laying the tile three feot and a-half deop, and ran out largor and smaller drains. Well, thero is no use in my tolling all about how I did it, only that tho drains would average about five rods apart, and it cost me about $\$ 21$ per aore. Well, I said to myself several times, Will it pay? I finished up the work about the 1st of Mray, bat I had the side wherewo began first ploughed before we finished the ditohing, and we had the whole field ready for planting by the 10the of May.
"There was a great difarenco in Forking the land the first year. Whon fall came I had fully sixty bushels of corn to the acre, and I don't think I over had more than forty bashels beforo, and the land had been much easier to tend. I said, Here is 88 over the best crop I ever raised on this land before, and on an average it is $\$ 10$ better. Well, well, that does pretty well. But will it hold ont? Since I have grown three more crops better and bettor. The monoy that I put in the ground has paid me fally fifty por cent. interest. This year I put in four miles of tile.
"I am truly glad of one thing,'and that is that I got hold of that article on 'Thorough. Work;' it cansed me to begin right.
"Soveral of my neighbours are draining the low places with tile that are altogether too small, but they think that I put too much tile on my land; but while the money in the tile continues to pay me so well, I shall keep on draining until I get all my land drained.
"Thon, do you know, I have loaned a litlle oney; not much, bat I was always peeking into my neighboar'sbusinessif ho had any of my money. I could not halp it: I was somehor afraid I'd lose it. Now I am not the least aneasy; it is better than putting it in bank for some gambler to $\mathbf{a s o}$ in trading in bargains. After a whilo I will divide my land among the children, and they will hare a goodinvestment of money in drainage for them-better than any I could make for them, and big dividends if they work it. You can hardly say too much for drainago."

Is it not infinitely better for farmers to invest their capital in their own land and get good dividends, and certains dividends, than in any outside stock that can be named ? And where is the stock that can guarantee such large dividends? A quaint writer once truly said, "The farm is a machine." Then keen it in good order, and it will give in return large dividends.-The Drainage and Farm Journal.

## THE SOGRCE OF PROFIT.

The principlo on which all farming rests is the profit on fertility: whether the fertility be purolased in the land or or in the manure appliod, the manurs being orcntually the main dependonce. The more manure, therefore, that can bo uged, the better, if it be intelligently done. To bury manuro in the lower soil is to lose a large share of it; to overcbargo the soil with it, is to incar loss in the manure and the crop; to intarmix it intimately with the soil and in sufficient quantity to grow a fall crop (which must be doterminod by practive) is to get the greatest benefit andthis is the trao tosting point betroon the costo of the manure snd the value of tho crop. The differ-
ont kinds of soilsand their oondition must also be considored in tho amount of manure to be ussd. A full benofit oan not be realized on rough and poorly-tilled land. Thore will be an inoreased wasto and less offect of the mapuro, and a reduction in the orop. This is beonuse the meohanical condition will not admit of that free passagg of the roots and thoir olose contact with the soil as in well-fned mellow groind. It is for this roason largely that thorough working of tho soil is held to enrioh it. It is in a cons tion the better to farour the manare; hance less manure is required, and hence the profit on it is increased. Those farmors, therefore, that use most tho implements of culture get the most profit on thoir manure, have a cleanor boil and more easily tilled, whero there is a large proportion of olay, whioh oonstitutes the greater part of our land, and requires the most care and work.

## cropping and mancring.

Farmers are frequently advised by certain agrioultural journals to double-orop their land for the parpose of increasing their profits. Though well meant, the advise is often mischievous, because based on serious misrepresentation of facts. True, there are some oases where suoh a system of cropping would prove a good practice; and these are quoted as examples worthy of general iollowing. A closer investigation, howover, ahows that farmers who successfully grew two crops in a single season from the same field have soil well drained, well manured and under thorough oultivation. It may be safely assumed that farmers wao have succeeded in bringing their land into this high condition are not greatly in need of advice from any quarter. They are a law unto themselves, and if they do or do not follow a -cartain course the resalt justifios their action. For the great majority of farmers the attempt to grow two crops in a season on the same land is, however, a mistake. As a rule they cannot make or in any way prooure manare enough to cultivate all their land, so as to produce one maximum crop por year. So long as this is the fact their wiser course is to do as they hare been doing-cultivate what thog can manare thoroughly and let the remainder rest; or, in other words, sow clover and grass seed and than slowly recaperate its wasted fertilty. If all that is ploughed is well manured and thoronglly tilled, it will probably make a profitable crop. It is on the profits of onltivated crops that all agricultaral improvement must be based.

## REMEDY FOR RAGWEED.

Nearly all our wheat is now sown following a spring crop, and a rotation of crops is generally adopted, which destroys all annual reeds by thorough tillago. And that is the way to destroy ragmeed-thorough cultivation and a rotation of crops. Plant corn, follow the next season with oats, turn in the stabble as soon as the crop is harvested, and before any sseds mature and fit well for wheat; then secd to grass to lay. domn one or two years, this course to bo repented. Under this system no annusl weeds will give any troable. I now regard ragweed as no more troublesome than the common piewced; it is juct as casily killed and no more damaging to crops when allowed to grow, but neither shonld $t$ : allowed to grom to the iajury of crops. The man who cultivates his land to the extont benaficiel to crops will not ba troubled with fonl weeds of any kind. It is the slipshod oi half-way tillage that anables reeds, drouth and other causes to sob the farm of profitable roturns.-F. P. Roos, in N. Y. Tribune.

## MANAGEMENT OF PASTURES.

The value of pasture consiats in its capability of furnishing grazing from oarly spring until lato in the autumn. To roach the best rosalts in this diseotion has beon the atudy of tho most aoute farmers of England for the last fifty years. Tho success has only beon measurable ovon in that cool, moist climato, one of the best for grass in the world. Even thoro the greatest auccess has only beon attained by means of irrigation daring cortain seasons. In the United States, with our sold wintors and hot, dry bummers, the difficulty is intensified; and our best feeders, espeoially dairymen, have found thomselves obliged to fall back on special cropg-corn, sorghum, alfalva, where it will stand, and various other soiling orops, to be ont green-to tide over the drouthe and heat of July and August. That plants will ever be found adapted to grazing that will produce succalent food through the hot, dry monthe of summor is hardly to be oxpected; hence we must be content with those plants that give an abandanoe early and late, falling baok upon forage crops and the grain of Indian corn, whioh, fortanately, can be raised so cheaply in the wout and whioh will componsate for the lack of moisture that hes made the meadows and pastures of Great Britain the theme of poets the world over.-Breeder's Gazctle.

## STIR THE SOIL.

That is what weeds are for, to induce the farmor to stir the soil and culcivate the crops. If we can't use the hoe, use the plough and oultivator to keep the surface of the soil loose and mellow.
It is a question worth considering hory much hoeing and caltivating, or rather how little, would be given to crops, were it not for the presence of weeds. The farmer is apt to eay, "The corn or the potato field is getting very weedy and must be cultivated," bat one rarely saye, "The soil must be stirred."
An Engliah gardener says he does not agree with those who say that one good weeding is worth tro honings. Ho says:-"Never weed a crop in which a hoe can be nsed, not so much for the sake of destroying weeds, which must be the case if tha hoeing be well done, as for increasing the porosity of the soil, to allow the air and water to penctrate freely through it. Oftentimes thore is more benefit dorived by orops from leeping them wall hoed than there is from the manare applied. Woeds or no weeds, I keep stirring the soil, well knowing from practice the very benefioial effect it has."-Western Agriculturist.

## TEEORY OF CROP ROTATION.

A writer in Country Gentleman, of Tyrono, Ps., whose initials are W. G. W., makes these sugges tions:
"It is now genorally admitted that rotation of crops is rendered necessary, not, as formerly anpposed, becanse the soil becomes exhausted of some necessary etoment, or becomes unwholesome for that particular plant, owing to poisonous excreta loft by the rocte, bat because insects and diseases accompany the plant whioh are special to it , the egge or spores of which are left in the soil to attack the same crop in the next following year with hundredfold increase of numbers aud power. Prof. Bessy, of the Iowa Agricultural College, shows how this is the caso with smut, whioh grows up all through the interior of a wheat plant, and finally deveiops its spores within the bran-easing of the grain, filling it not pith flour, but with innamerable black, stinkeng seed of the parasite which, when set rree, float ont and stiok fast to sound grains of wheat, and aleo to particles
of the soil, whore they lio ready to enter into the ciroulation of the next yoar'e growth of whoat plants, unless killed by steoping the pollated seed in blue vitriol solution, and dsying off with lime. As to polluted soil, it is parified from the oontamination ouly by using it for some other crop on which the smat plant cannot take hold."

## a VALUAble hint.

The Orange County Farmer sayo concorning housing manure:-When farmers learn from oxperience that by housing manure and thoroughly working it over, mixing with absorbants such as muok, earth, road dust, leaves, oto., to take up the liquid and the ammonia set free, its value is donble what it now is, and at an expense, too, maoh less than the same amount of plant food could be obtained in an artificial fertilizer, a now ora will have been reachod in agrioulture, and we shall see the fertility of the old farms bronght book to where they were fifty years ago.

## LIMING MEADOWS.

Liming meadows or old pasture lands with, say, thirty bushels to the aore, has an effect upon the condition of the crop of grass that ferv farmers would beliove without giving it a trial. In fact, we do not know how the same amount of moneg can be expended upon land with the same profit It is not only certain bat lasting. We have snown farmers to pastare meadows fifty years without being turned up by the simple application of lime once in six or ton yeara. These pastures which are regarded as permanent, and mostly abound in clay moulds, after being grazed down thoroughly, are restored alnost knee-deep in from five to six weeks. We do not hesitate to say that nowhere has lime a more marked effect, and can bo used pith better resalts, than in the renovation of old pastures.-Orange County Farmer.

## CARE OF FARM IMPLEMENTS

A correspondent writing to the American Rural Home says:-Do not let any of your farm implements remain exposed to the weathor. When not in ase keap them housed by all means. By letting farm mashinery stay in the field ex. posed to rain, dews, winds and the hot sun, they recoive more injury than from careful usuage. I know of a sulky-rake that has done the raking on a larga, rough farm, for eloven years, that is as good as nowt but it has been taken good care of and housed when not in actanl use. Farmer friend, I toll you it pays to take good care of your tools.

## CURING CLOVER HAY

s writer in Farm and Firsside says that in order to cure clover as it ahould be, let the exterior of the stems and leaves cure in the san, but for a comparatively short 'proportion of the time required for its proper caring which should be mainly done in the cook. By this process an equalization of moisture takes place. That is, the exterior of the stem and leaves become partly dried as it falls, when cut by the sickie of the mowing maohine, and the process callod sweating, aftor it is cocked up, is meroly the passage of the excess of moisture in the succulent stems to re store the equilibrium to the surface. After this has taken place, but litite more drying should be given the olover than is secured by orposure in losding in the field and unloading at the barn or rick.

Wais jod have a httio pio-orast, do not throw it away ; roll it thin, out in small squares, and bale. Just before tea pat a spocnfnl of raspberry jolly on each square.

## HINIS FOR THE HOLSEHOLD

Stinas of insects are rolioved by tho application of ammonia, or common table salt, or a blice of onion to the part.
To keep flies off gilt fracios boil throe or four onions in a pint of rater, and apply with a soft brush.
To boat the white of egge quiokly put in a pinch of salt ; salt cools, and the cooler the eggs the quiokor they will froth.
Baksd Eags.-Break eight oggs in a well buttered dish; put in pepper, salt, and butter, and three tablespoonfuls of oream. Bake twonty minutes.
An agreeable and appetizing dish is made by cooking asparagus and peas together. Cut tender stalks of asparagus in small pieces (both vego tables require the same length of time to cook), season with oream, peppor and salt, or in place of cream uso mills with a lump of battor melted in it.
In gardons aud greenhouses, where boiling water cannot be poured on, ants' haunts may be easily removed by using pioked bones, which will be soon covered with ants, which may bo destroyed in hot water. Repeat tho process and the ants will soon be cleared out, if a number of bones are used, which may be placed in out-of.the-way spots where they will not be seen, bat where the ants will soon find them.
Crocolate Pie.-To ora nint of water take four spoonfuls of grated ohocolate, six of sugar, and two of corn starch, beside a small piece of butter and the yolks of tro egge, well beaten; stir them all together, and patting them in the pint of boiling water, stir them until they take on the consistonoy of onstard. A spoouful of vanilla may be added if liked. Bake in a rioh orust with the Whites in the form of a meringue on the top.
Lexan Rnsd.-When using lemons for any parpose, it will be found an economical plan to grate the yollow rind off, mix it with an equal quantity of sagar, and pat it ap in an empty box with a tight cover. This will be delioious for flavouring onstards, molasses cake, and anything else where lemon extract is used. It retains the strength of the lemon while cooking, and is mnah more delicate to the taste than the oil or extract oi lemon.
A darnty dish for dessert is made of three tablespoonfuls of peach or raspberry marmalade or jam, two ounces of fine bread crumbs, and two well-beaten egge, a quarter of a pound of sweat almonds, bianched and rubbed or pounded to a smooth paste, or they may be chopped; beat an ounce of batter till it is light as cream, then stir sll these together, beating till mixed thoroughly then butter some small cups, and fill them trrethirds fall with the mixture; bake for twenty minutes in slow oven.
Ruos is becoming a muoh more popalar article of food than horetofore. It is frequently substituted for potatoes at the chiof meal of the day, being more nutritions and much more readily digested. At its present cost, it is relativoly cheapor than potatcas, oatmoal, or grain-grits of any kind. In preparing it, only enough cold water should be poured on to prevent the rice from burning at the bottom of the pot, which should hare a close-fitting cover, and with a moderate fire the rico is steamed rathor than boiled until it is nearly done; then the cover is taken off, the surplus steam and moistnre allowed to escape, and the rice torns out a mass of suow White kernels, each separate from tho other, and as mach snperior to the usual soggy mass as a fine mealy potato is superior to the water-soaked article.

## GARDEN AND ORCEARD.

## THE CULTURE OF APPLES.

When advised to not more applo trees, the arorago farmor answers: "Orohards do not pay. If apples aro selling at s good price, it is the year my trees do not bear, and whon I do have a good orop apples are so oheap that they scarcely pay for picking."
Something of trath in thest; but it is not quite the trath. When apples are at the lowest price, a man can make pretty good wages in picking, assorting and barrolling them, oven though he has but a small share of the products of the orohard for his labour.
The dap's labour spent in an apple orchard usually yields better pay to the farmer than any other farm work that he does. Compare the time necessary to get a barrel of apples ready for market and that required to grow and harvest a barrel of potatoes.
Tho inoreased demand for apples for exportation is likely to make better markets and better prices for this fruit in the fature than we have had in years of plenty in the past. The evaporators or frait dryers, and the conversion of cider into apple jelly, onable those whose temperance principles would not allow thom to make cider to be used as a bevarago to feel that they can now convert their oider apples into a wholesome food.
Better oultivation and better varicties of frait will make better crops and better prices. In the matter of fruit, also, increased supply seems to orente an inoreased docrand. Witness the quantities of strawberries, oranberries, and other small fruits nor sold in our markets, and then think of the time thirty years ago, when scarcely one-tenth as much wns sold, and yot prices have not deolined very much.
Of all our froits, noue other is as valuable as the apple. It can be had in perfection at almost all seasons of the year; it can be eaton raw or coosed in a variety of ways; it is hoalthful and nourishing, and it can be found in the greatest variety of flavours, enoagh to suit all tastes. Therefore, we repeat, plant out more apple trees; get good healthy trees grafted with good varieties of fruits ; put them in good soil ; prepare the land earefully, and give the trees good care, and you will find that thoy rill propo profitable.-American Cullirator.

## THE REEPING OF FRUIT.

The proneness of some thin-shinned and tenderfieshod kinds of frait to go off with rot when they have net oven reached fall maturity, is vexatione. Some of the fine, luscious gages and handsome, refreshing heart-cherries are thus taken away from our vory lips with Tantalas-like tease. Thero is no trouble about growing the trees, and they sot fruit almost unfailingls, but as unfailingly, for us, they all spoil before one has its mature fll our or oolour. Fruits equally sweet, but with thicher sking, keep well, but very acid fraits, as a general rale, beep best The lemon, the carrent, the gooseberry, are examples. Green gooseberries keep well in water oren withont being hested themselves. Ourrents wall hang on the kuakes through all the heat of the summer, if protected from the birds by a net. Dr. A. B. Barnes, Southrington, Conn., has sent a samplo oi cranberries, in their nataral condition, kept over two winters; and, although frozen many times.and softened, neither the flavour nor colour has been lost; on the contrary, thoy seem the richer for age. The apples make an exception to the general rale of acid fraits keeping begt. The sweet rarieties are usually more easy to keop long in good condition than sour ones. We have
at this writing-July 27-a fow loft of the Lady Sweot, kopt headed up since November in a barrel in an ordinary house-collar, whioh are not in the least withored or deonyed, and scarcoly inforior in flavour to that oxcollent sort at its best.

## RASPBERRY GANES AND CROP.

I usod to think it of little consequenoo whon the old canes of blackcaps were out. Wild rasp. borrios continned to bear well, though the old wood was never remored. But recont experienco and experiment have convincod me that thoy should be removed as soon as the fruit is gathered. At this season the old bearing canes are yet alivo, and may bo out easily with a sharp hoop attached to a handle two feet long, after whioh the field may be more thoroughly oultivated and hooped than if the enoumbering canes wore in the way.
But aside from this the old canes appear to draw out the vitality of the plant, and serionsly affect its subsequent capacity for bearing fruit. It is now held by soientifio men that a dead branoh exhausts the vitality of the tree as maoh as though alive. The dead canes on raspberry bushes would appear to affect them in a like mannor. Bushes not cleared of old canes produce small, defeotive, crambling specimens. The first year or two the bushes are not so seriously affeoted. Hereafter we will trim ours as soon as the fruit is gathered, sweep them out of the spaces between the rows with a one-horso rabe, similar to a steel-toothed hay-rake, but very short, no wheels, burn them and save the ashes.
Blackeap raspberries are one of the most certain crops and are as aure of sale as wheat. If sot wanted freshod-pioked they pas as well evaporated. After one learns how to manago them there is no more trouble to harvest them than most farm crops. A young girl often has oharge of fifty piokers on our place, but it paya to have a competent person walking abont to see that the work is well done. Our blackoaps bring in about $\$ 100$ per aore, gross incoms, on the average, for the frat alone. The orop of plants from the same rore is as valuable as the fruit, often far more so. The blackoap abhors low, wet ground; but, if such is drained, it will thrive therein. Souhegan or Tyler, for early, and Gragg for late are the best varieties,-Charles A. Green, Mfonros Co., N. Y.

## REFUSE VEGETABLES FOR MANURE.

Weeds, if they are allowed to grow in a garden, shonld always go to the rubbish or compost heap before the seeds ripen, and if placed in alternating layers with manare or other decaying stuff will become thoroughly disintegrated. But no thritty gardoner allows weeds to grow or reach any aize, being destroyed as they roach the surface of the ground. Bnt there are many refuse portions of vegetables, as potato-tops, tomato.stralks, cabbage stumps, lawn-mowings, thinnings of various crops, etc., whioh mey be turned to good account if the heay is moistened with refuse soap-sads, treated Fith hen-honse oleanings, various slops, and the many other matters too often wasted. Lshes, lmee, brine, etc., mas be added as opportanity presents. It will be observed that every good manager clears ap these maste materials to loep the premises in neat condition, and he may as Fell turn thom to good accoant as to lose their benefit. In addition to the advantage obtained from the intermixture of these materisls, the ingredients of common yard manure are more valaable if woll incorporated togother. A late writer remarks that he finds a mixture of cov and horse manare the best of all fertilizers. Ho throws them together, mixing well, and if they lio in a
heap ten days or two weaks before applying thoy nover bocome overheatal by fermontation. In wintering oows nud horses, ono of our best soiontiffo farmors has the rear of the lines of tho stalls of these two animals placed together, so that the drier horse manare tempers the more liquid cow droppinga, renders the attendanoe oasier, and makos an excollont fortilizor.

## SEEDS BEST SOWN IN AUTUMN.

Most poople have obsorved, no doubt, that solf. sown seads that have dropped from tho growing of tho previous season, somotimes produce tho strongest and most healthy plants that bloom the most freely. This is truo of sevoral kinds, but partioularly those that suffer unäer exposure to orr midsammer sun. The reason is that selfsomn seeds git a very early growth in the spring, vegetating as soon as frost is gone, and are goodsized plants by the time wo usually put seeds in the ground, even if they do not start in the fall. They thas mature and flower during the cool weather of spring. The clarkias and nomophilas and annual larkspars are noted examples. There are also several varieties of hardy annaals that do well with spring sowing that will bear antumn sowing in opon ground, and roward us with early spring flowers. Sweet alyssum and white candytuft will give us abundance of white for early outting, if sown in tho fall. In a sandy soil the portulacca may be sown in the autumn with good success. Seeds of biennials and perennials, if sown early enough to produce strong little plants, will flower the next summer. Pansies and Chinese pinks, though they bloom the first sumner if sown in the spring, will make muoh stronger plants and flower more freely and earlier if young plants are grown in the autumn.-Western Farmer.

## EXPERIMENTS IN CULTIVATING.

W. W. Higbee, of Vormont, writes to the Practical Farmer, giving some of the resalts of his exporiments in cultivating oroharde, which although according with the experiments of others, may be useiul if briefly stated in enforoing their teaching. Sowing wheat in an orchard always seriously checks the growth of the trees, even if the ground is manured. Oats are oxhansting, but less so than wheat. Corn and potaioes both answer well, and the caltivation they recoive benefits the trees. In one instance, half of an orchard was sown with wheat, and the consequence was it mas put back two years as compared with the other half. Whent in a thrifty young plum orchard rained it To these statements we may add the following: A neighbour set out a hundred peach trees, cultivating a part of the ground in potatees, and the remainder was in wheat. None of the trees in the potatoes grew less than a foot and a half, sad some sent up shoots two feet and a half. None of those which stood in the wheat ground grow more than three inches.

SAVING CABBAGE SEED.
A writer in fardering Illustrated gives the following practical suggestions:-Cabbage seed is by no means easy to secare pure where it is baved in a small way; not only does the cabbage aross mosit freely with broceoli, but aiso with all kinds of the Brassica family, and if there be any diverse sorts growing not merely in the same garden, but in any other near, the chance of secaring true stooks is very doabtfal. A few plants sayed to bloom, and parposoly blocked in together, mas be largoly protected with fine netting. If a garden is isolated from all others, and no membors of the Brasica Eamily are permitted to bloom in
that gardon, then the results may bo all that oan be dosirod. Whore soeds of this kind are grown in a large way, and the plots of pelaeps sevoral acres are isolated, the danger fof intororosaing is minimised. Boes, the ohief agents in fortilization, will find so muoh food in a largo fiold in flower, that thoy will not be tompted to go to another kind to get the nocdful load of food. Oab. bagos planted now will, as a rule, run off to blossom next spring. Of coarse, the heads are all out in the interim, as shoots barst forth freely onough from the leaf joints in the spring, and these produce amplo bloom. It is not an uncommon praotice for autumn planted oabbages to bolt off to flower in the spring. Seed saved from these would only porpotuate rubbish, and ahould be pulled as fast as they are observed.

## THE STRA FBERRY DUDE.

The Philadelphis Record man eats of tho modern strawberry and sighs for the rich red berry of his boyhood, found in green meadorvs. Hear him:
There is one strawberry which grows in the oountry meadows, sweet, wholesome, sugary, sour, delicate in its flavour and wholly delightful. This strawberry plants itself and propagatas itself, and continues from generation to generation, a good thing, asking no odds of anybody. It was of this strawberry that good old Isaac Walton declares: "Doubtless God could make a better berry; but he never did."

There is one strawberry, the hucksters delight; overaized so that a basket will not hold many; of foreed growth, so that its juices aro immature and tasteless; soft, spongy, sandy and misalappen. This monster has monopolized our martats. This strawberry is a frad. It is a strawberry dude. It is a proof that over-cultivation is as disastrous as under-cultivation.

For gears past the strawberry has been growing in size, price and worthlessness. It isimpossible to retrace our stops and go baok again to the little, sharp-pointed, deep-red berries that looked when pioked as if the tips of a fairy's fingers had been served up for the breakfast of a mortal man?

## FRUIT CANNING.

The canning of fruit for market requires a capital of $\$ 10,000$, but every one can dry fruit if possessed of : will to do so. Dried frait can almays find a market, but fresh frait often fails to pay freight and expenses. A bushel of applos fifty pounds will dry to five or sir pounds ; pears will dry to seven pounds, worth fifteen cents a pound ; plams yield twenty pounds to the bushel ; penches will dry to ten pounds. The average market price of dried frait will render the profit .of drying about equal to that on green froit, and will be obtained from that which would otherwise have been wasted.

## IMPORTANCE OF GOOD SEED.

Benjamir P. Ware, in urging the importance of carefully obtaining the seed of the best varieties, said there was a severo hailstorm which destroyed a part of the seed plat of one of the best onionraisers in Harblehead, so that the seed of his own raising was only enough for a part of his ground last year. He boaght the rest of the seed he could find. The result was, as he said, that it would have been better for him to have paid \$20 a pound for the best seed, like his own, than to have ased such seed as he bought had it been given to him. What is true of onions is trae of cabbage and other vegetables. Poor seed, with the best manaring and oultivation, cannot give good orops.

## TRANSPLANTING ROSES AND RHO-

 DODENDRONS.When sotting out young rose bushes in the spring, covor thom with window sash until they aro growing nicely. During the heat of the day have thom oovered from the sun by putting a canvas tent or a largo umbrella over thom. Bofore winter comes have the roses and rhododendrons proteoted, by wirapping plenty of straw around them and placing a barrel over them. Rhododondrons may bo planted in a large tub, and put into the collar during the winter.

Scou extravagant praise as is often given to nev fruits destroys confidence and creats disgust in the mind of all sensiblo peoplo.-Rural NecoYorker.
If gardeners woald give good oultivation to the kinds they have, and male the best of them, they needn't fool much money away on novelties. -Farm Journal.
Last year I put twelve moles in my strawberry patch of five sures, to catol tho grubs, and they did the work. I nevor had a dozen plants injurod during the summer either by the grubs or the moles.-Rural Home.
A cohrespondent of The Yoica Farmer reports Crescent the most prolifio of both plants and fruit of any atramberry he ever tried; it is of "fair size, good colour, flavour mediam, bat sure to bear in any soil and almost any season."
Oaptan W. M. Pirts, Vineland, N. J., raised the "boss" big strawberry of that fruit region this year; it was a Sharpless, and measured nine inches around. From a bed of this variety, 50 by 108 feet, he pioked 1,840 quarts, whioh sold for $\$ 45$.
Dr. J. S. Wrison, in the Southern World, declares that to cure a fover, or act on the kidnoys, no febrifage or diruetio is saperior to the juice of fresh, ripo, watermelons, which may, with very fers exceptions, be taken in siokness and in health, in almost unlimited quantity, not only withont injory, bat with positive benefit.
Miss. A. F. S. thinks it passing strange that President Smith " never sa.i a robin eat a strawberry." She has not only witnessed that common exhibition, but lately observed the feathered epicares in fruit throw out the poorer specimens from a small basketfal left, under shade of a tree, so as to get at the streetest and best. "Naughty birds," sha says, but kindly adds-with appreciation of their songs and all-season nsefulness against insects: "I would't have one killed for anything."
A wise man of the east has found out how to get rid, in a peaceful manner, of a raiding flook of hens. He captares the atteudant male bird, and rige him up in thick brown paper legginge. His uncoath appearance and amkward movements disgust and affight his feminine companions, who laavo him solitary and woo-begone. When once rid of his paper breeches, Mr. Chantioleer avoids the premises of the inventive tailor who fitted him with them, and his lody friends decline to go there without him.
Four or five decades ago a story was told in the papers of a woman, obliged to leave a house, spitefnlly scalding a peach treo in hopes that her successor wuald have none of its fruit. Contrary to her wish aud intentions the tree became more floarishing and fruitfal then over. I have often and ofton ased boiling water on peach stems since, of un with marked effect for good, and never with any bad resalts. Of course worms are destroyed, if the collar is first clearcd of gum, and as the heat must reach through the vital cambiam layers of wood, it seems very possible thet, if applied at the right season, the growth of any parasitic fangras through that lager may be arrested.-Bortus.

## CREAM.

Norumo is porfect but the nerr baby ; and that is ofton $\mathfrak{a}$ perfeot nuisanco.
A Shall Fibuina Party: "Did you eatol anything?" Second Boy: "Not until I got home."
A youna lady calls her boan "honeysuoklo," booause he is always hanging ovor the front railings.
"Nax, what are you leaning ovor that emply cask for ?" "I'm mourning over doparted spirits," was the reply.
A parson being aaked why he had given his daughter in marringe to a man with whom he was at onmity answered, "I did it out of pure frevonge."
"Welc, sonny," said a doting unole to his littlo nophow, who had been absent all day fishing, "did you oatoh a good many fish?" "No, unole ; but I drowned a good many worms," was the sonny's answer.
"Tue bees aro swarming, and there's no ond to thom," said farmer Jones, coming into the house. His little boy, George, came in a second afterward, and said thero was an ond to one of 'em, anyhort; and it was red hot, too.

A conceited young country parson, walking homo from ohurch with one of the ladies of his congregation, said, in allusion to his rustis nudience: "I preached this morning to a congregation of assea." "I thought of that:" observed the lady, "when you called them beloved brethren."
"Tros servant girls on their-way home from church in Paisley are discussing the merits of the pselmody. First servant girl: "We hae been haen three hymns an' only twe psalms lately. It's my opinion oor minister's patting the works o' man before the works o' the Maker." Second do.: "Yer aboot richt there."
The misery of being called upon suddonly to make a speech was once got over by a noted English mathematician, who delivered himself in this fashion : "Gentlemen, a morbid desire for originality provents me from saying,' 'This is the prondest moment of my life,' and it does not occar to me to say anything else.'
A parsies once told his man, who was from the Emerald Isle, to ran into tho pasture and catoh an ox, "I mean the off'un ; I will manage the other myself," said he. Pat ran to do as bidden, but suddenly paused on his way, with the ex olamation: "He"s a reasonablo fellow, anyhorr, bedad! And how am I to know which is the orphan?"
"What is a score?" said the teaoher. "The number of runs got at a oricket match," replied the urohin. "No, no ; what I mean :s, how much does a score signify numerically? What does it give? That is to sey, were I to tell you that I had a score of horses, what would you think?" "Please, ma'am, I should think you was stuffin' me," calmly roplied the boy.
Lirtice Harry had been told not to bathe in the mill-pond; but as ho was olimbing over the fence back of his house he saly other boys in bathing, and the temptation was too strong for him. He was careful, howeser to keep his head dry, so as not to aronee saspicion whon he retarned to his mother. But she immediately taxed him with having disobosed her. "Why, mother," said ho, taking off his hat, "look" at my hair ; it would be wet if $I$ had been in swimmin'." "Yes, my son; but how comes your shirt wrong side out?" "Oh! why ?-faltaring, then gleefally-" $0 \mathrm{Oh}, \mathrm{I}$ tarned that getting over the fence." "0h, you did. Did yoa? Well, then, one good turn deserves another." And the wails from little Harry told that ho had begn tarned to a horizontal posir tion.

## HORSES AND CATMEE.

## DEVELOPING THE YOUNG HORSE.

To those who havo becomo impressed with tho fact that the structure of the horse is complioatod, it will not be incomprehonsible that tho ingeniously formed bones and joints, furnishing leverago for several hundred muscles, ecoh designed for a more or less distinot purpose, are, if doveloped to thoir full capacity, capablo of making a wide range of motions and accomplishing great feats. It is quite olcar that the full limit of these copabilitios is seldom brought out, as the movable parts are, as a rule, only developed by the colt in the pasture, and some colts have very limited opportunities even in this direction. If, as is the case with the tailor's fingor on whioh he wears his thimble, the colt could be troined, through careful attention to cortain motions mado frequently, and continued during longer periods than now, it would make cortain joints and mūselesparticularly those brought into action in road and speed work-larger, flexiblo, and as onduring as iron.
Oolts and young horses that are, orfing to ther
of tho soft parts, aftor boing drillod for a forr days. This liability is heraditary, nnd in suoh stook these breaks can only bo avorted through tho most careful, early, continuous, and prudent drilling.

No loud.talking man, moroly becesuso of being ablo to hold tho colt to tho traok, and rub him dry after exoroise, is capable of mensuring whit strain is and what is not safo to be put upon the mainly untriod limbs and wind of the immataro and herotofore insufficiently drilled horso. The fact that the colt has been pormitted to get considorable growth, affords of itself no guarantee against injury when put upon the track. Tho limbs and joints that get sizo under confinement are soft, and the attachmeuts of masole and ligament to the bones are in a dcgree inscoure and liable to rapture. Tho colt that is considered too valusble to often go outsido of his carefullybedded box, except now and then to be led up and down tho alleyway, will be badly prepared for track work whon ho arrives at the age of sup. posed ueefulness. Tho well-bred youngater is morely a machine, possessing capabilitios, that are not found in the low-bred colt, bat those capabilities consist, in quite a degree, in the capacity for
upon whioh the strain ofmos must bo mado to grow in strongth, sizo, and firmness beforo thoy can bo safoly pat under sovers and continuous strain. No ono thinks it possible to breed acrobats and gymnasts to order, as we ensay to broed trotting colts. Of courso, the acrobat, like the colt destined to bo a trotter in the futuro, is expeoted to have a favourablo formation. But bear in mind that horses of all shapes are said to go fnst. All acrobats as woll as all horese have ench a liko number of musoles. These museles are similarly attached, both at the principal and at the tendin. ous end. But the power of eaoh deponds (1) apon its size; (2) upon that innate quality whioh wo cannot see or measure, escept by resalts-this we will designate as the fruits of high breeding-and (8) apon exercise, and in this third division there is muoh to be brought out.
Some one is quoted as saying that early in 1000 a horse will make his mile near down to two minutes. We do not doubt this, crad rossibly we have as good material to get this low-down speed out of him now as we will have then. Do we not err in waiting for the colt to come to the speed? Should wo not make a more vigorous effort to bring the speed to the colt? The young dear is


AYRSHIRE BULL.-"HANLAN."
Calved March 2nd, 1880. Brod by Messrs. Jandine \& Son, Hamiliton, Ontario. The property of William W. Alacallistor, Stony Mroantain, Mranitoba. Got by Mrars First [803]; Grandsire $\Delta b b o s t$ [804]; Dam Orphan Lass, 565, by Nelson [438];

high breeding, considered to be too valuable to bear any rough treatment, are, like the children of well-to-do city folks, too tenderly kopt, in view of the fect that they are expected before half mature-that is, counting maturity to come at seven years-to undergo violent exercise upon the turf. The training that a colt gets just upon the eve of having sufficient age, as his owner thinks, to win some money, is well enough if the drilling is entrusted to competent hands. But the drivers who do this preliminary work are usually somewhat reckless. They are at least careless. If they were to change places ${ }^{\circ}$ with the colt, they would soon realize that muscle and ligaments, comparatively unused, when pat under new exactions, are lisble to become sore, and equally liable to become 80 strajned that puffing, from ruptare of minute fibres, with added effusion, are quite likely to ocour. Eence we see so many young thinge fall anajer trial apon the traok turough want of provious fitting. The joints, musoles, ligaments, and tendons are, so to speak, soft, and hence entirely inadequate to stand the work finally demanded of them. The get of some horses, and the produce of some mares, are especially prone to having trouble unon come portion
development under training. If we can, by a jadicious system of manipalation, enlarge the joints, ligaments, and musoles of the colt bred for speed, as is the arm of the smith by habitual use, without endangering the trunk or materially increasing his weight-rataning his natural capaoity to go, and adding to this by doveloping, and thereby strengthening and toughening, the parts that are mainly instramental in giving speed -then we will not only get the outside limit of his speed capsoity, bat wo will seoure immonity from baing easily strained.

Twenty-three hours ont of the twenty-four in the box, with perhaps a portion of the time spent in a quiet walls about the grass lot, will not fit the anatomy of a young horse to stand up to hard rork on the training track. Any compctent peterinarian or anstomist can tell you this much. Tho thorough gymnest only reaches his capacity to stand extroordinary strain apon the parts involved after persistently putting the parts under carefal yet severe tension (not onder the direction of an ignorsnt person who is quite likely to look upon the leg of the colt as about as simple in its formation as a hiokory saplin(8), undar a competont trainer, who fully understamas that the parts
faught to reach out beside its dam, and soon equals the dam in speed and bottom. If it were kopt seven-eighths of its time in a pudded box, the other eighth being devoted to gentle exeroise, we would in a little while have wind-puffe and blood-sparins upon the deer if put to the top of his speed. We wrould not secure the development referred to by idleness in the box, neither by track-training while yet a colt; certainly not as a yearling, and very cautionsly and lightly in his two-year-old form. Not mach less so as a three-ycar-old, but instead, the groom, in place of lyiris idly in the shade, should moant a suitable horse, and take by the halter one colt, or three or four, giring them, not rods, bat miles of walking excrcise, once or trice a day, in all suitable weather. This should be increased to a jog as the colt gets age, thas adding daily growth and firmness of joints, muscles, and ligaments.-Country Gentleman.

Every ball bred apon the Island of Jersey, or that can be traced to Island breeding, is onfitled to registry. But it does not follow that his hniter record is good, or amounts to anything at all.Liro Stock Indicator.

## HEREFORD BEEF IN LONDON.

Tho Mark Lane Express of London, England, alluding to a statement mado in our columns by an English correspondent, says:--" A Shorthorn breedor writes to one of the United States papers stating that the London salcsmen say they cannot sell Heroford bullooks. No wonder this Shorthorn breedor does not give his name. The only difticulty the London Balesmon experience with regard to the Horeford bullocks is in getting as many of them as they want in the season. As grass-fed beef, there is nothing that comes into London that onn touch the Herofords."-Breeder's Gazette.

The following appeared in your last issue copied from the Mark Lane Express: -
"The only difficulty the London saleamen ex. perienced with regard to Hercford balloolss is in getting as many of them as they want in the season. As grass-fed beef, there is nothing that comes into London that can touch the Fereford."

This is stating the case rather extrapagantly, but we lave not quoted it here for the purpose of meking any question in regard to the excellence of the IFerefurd as a grazing beast, bat to direct the attention of those of your readers who are not familar with British Markets and British mothods in grazing and feeding cattle, to a for points essential to a correct understanding of such paragraphs as this. It is said that salesmen find it difficult to get as many Hereford bullocks as they want " in the season." Now it is to be observed that Scots, Herefords, etc., are always looked upon in the markets as grass-fed beasts, while Shorthorns of all grades are in the market all the year round.

In the next place, it is to be observed that grass-fed beef, in proper condition, is always of better flavour than the stall-fed, and this is especially the case in Great Britain where turnips and cake are chiefly fed, which, as is well knorn, impair the flavour of meat, as they do of milk $\varepsilon, n d$ butter. Besides, the Scots, Herefords, and Devons, when brought fat to the markets in the autumu off grass, have more age than the average of Shorthorns, which may be profitably fattaned on artificial foods at from twelve to twenty months. Now, cattle killed at those ages make beef that is relished by many as being exceptionally tender, while it lacks the rich juiciness and high flavour that would be found in the flesh of the same cattle when fully matured and made up on grass of the highest quelity. Hence we find upon the estates of wealthy gentlemen in England, select lots of bullooks being grazed to full maturity, to furnish a supply of beef for the holiday season. These builocks are frequently found grazing in the parks with the deer. In winter, in very severe weather, they are sometimes allowed a little hay, but are never fed turnips or cake.-Breeder's Gazette.

## MAMMOTH STOCKMEN.

From the Standard Oil Company and W. H. Vanderbilt down, tho heavy ceppiralists and combinations of heavy capitalists are eugaging in the live stock business, and from day to day we hear of sales of stock and ranches aggregating large sums, made to rich capitalists or companies netire and foreign. It is not with unfeigned plessure we note this invasion of combined capital into this vast and profitablo field of agrionlture. Hearen bnows the words "capitalists," "combinations," "gyndicates," have becomo well-nigh synonymous with schemes for ill-gotton wealth and the crushing out of all amaller compatitors, and already that audacity and defiance of lave so characteristio of many of these great concerns has been exemplified by the Standard Oil Com-
pany and others in their stook oporations. Howover, it is a case of "What are you going to do about it," aud in the meantimo our goneral farmers must soo to it, so far as the means at their command will pormit, that their stock shall bo stoadily improved. Perseverance on tho part of every farmer in the matter of breeding to a highor standard overy kind of stock from his horses to his pigs, like persistent care in the selection of his seed, will very soon show its good effects upon his pooket. Many farmers raise a couple of colts every year. A littlo broeding up vould soou make these colts worth $\$ 50$ more apicce ait four years old than they are now. The same oare persisted in with regard to sll the stock products of his farm will in ton years timo maku all the difference betweon affluence and penury in many a man's caso. We are writing now of the average hard-worlsing farmer who is carving out his own fortune in the west--Farmer's Revicuo.

## HULSTEINS AS BUTTER-MAKERS.

A correspondent in Country Gentleman bays:"Tho Holsteins are fast coming into prominence as the greatest malk and beef breed. But the fact that they are also among the largest butter. makers is not so well known. Breeders have paid more attention to milk production then to butter, and comparatively fow tests have been made. Those that have thas far been published seem to show that the Holsteins are destined to become as famous for butter as they alreazj are for milk and beef. I have figures at hand of a few tests of thoroughbred cows and heifers, which I give in the table below, all of which I believe to be reliable and correct.
Name. Tyst yoz geven dars.

Netherland Onean Jannek
Zwarta

## Zwarta

Lady
Textlanar (six daye)
Texelsar (six dayb)
Panls
Panls
Aogis 2d
Violet
Festa 2ind


TESTS FOR ONE DAT.


TEETS TOA SETEA DAYS OT THO-TELR-OLD HEITFRB. Nami.
Asggie 2nd.................................... 13 lbs 6 602. Oriens. $\begin{array}{cc}13 & 5 \\ 13 & 33 \\ 12 & 2 \\ 10 & 13 \frac{1}{2} \\ 10 & 4\end{array}$
Netherland Countess ...................................... . . . . . 10
If owners of thoroughbred Holsterns will make careful tests for seven dsys and send the results to me, of all cows giving fourteen pounds or orer par week, I will be glad to publish them in enother table later in the season. I believe we can produca a list of buttor cows from our Hol stein beef and milk breed, that will rival that famous Jersey batter list of Maj. Campbell Brown, and that it can be shown that the Hole steins are the very best breed of cattle in the world for either beef, milk or batter, or for all combined."

## OIL-CAKE MEAL FOR HORSES.

The Lifo Stoci: Journal says:-" But very few know anything of the value of oil-akke meal for horses. Its use in fitting fine bred cattle has long been common and its value fully apprecisted. The same can be said of swine, for no food will causs a pig to gain and put him in show
condition so apeodily as oil-case moal, giving him a glossiness of coat not obtainable so woll in any other way. What oil.cake will do for cattlo and pige, it will do equally well for horses 4 horso appearing to bo bound up, as this torm is understood in the stablo, can, by the use of this foed, be relieved of this condition as promptly as by turning out to grass, involving none of the contingenoies whioh attond the latter, the full strength and vigour boing maintained in the meantime. Nothing so quickly improves the coat of a horse, as tho use of a little oil-cake incorporatod with his feed; whilo turning out to grass in sun and rain fades and roughons the hair in a weels's time. In addition to this, oil-cake loosens the bowels, the degree to whioh this is dono being ontirely under control, while the offect from a run on grass is entirely a matter of clance."

## AN INTERNATIONAL EXHIBITION.

At the International Exhibition just hold at Hamburg, the show of cattle was confined almost exclusively to the breeds of Northern Europe, and the following extraot from the correspondence of the London Lire Stock Journal is interesting, as showing the relative strength in which they were represented:

The entries in cattle numberea nearly 1,000, although many stalls were empty, and these were divided among 140 olasseg-one of which was for a collection, and this was a most remarkable class, and contained about 250 specimens in 82 entries, so that there were considerably over 1,000 head exhibited. The Marsh breeds of North Germany commenced the list, and hore wo had 02 East Frisins, catile of good size and quality, rare udders, capitni heads, and cluefly black-andwhite and groj-and-white. Then came 180 Oldenburgers, a smaller race, with straighter horns and less symmetrical form, being heavier in the fore-quarters and narrower behind the hips. They are, however, similar in colour, and carry capital udders. A slashing class of 172 Dutoh followed, some of them being attended by Dutch women in native costume. These were one of the grandest lots in the exhibition. Their fine size, milking properties, fine coats and condition, and uniform quality, made much impression, and it is a decided disadvantage that we cannot im. port them for our dairies. In the next seotion were 53 Nilstermarshers, a Holstein race, a modium hornod, thick-skinned, red-and-white, docidedly fleshy, but yet coarse beast. The Breitenburgers, also Holstein cattle, were 79 in number. These are a short straight-horned, fleshy beast, of a darl-red flecked with white, and appcared to be favourites with many.
The next divirion was for herds kept in the higher lands, and the above races here numbered but 18, but the Angeler, the famous little Danish race, came out with 02 entries. This breed is one of the best milking races we lnow; small, and almost as fine as the Jersey, it is carefully bred to type and colour, and has overy characteristic of a good dairy animal, being, moreover, most gentle and a perfect fancy cor. The colour is a doep smutty red, and we know of no animal of the size more likely to como into popular favour when it is better known. There wero no entries of Jutland beasts, bat the next group furnished 88 specimens of less known races, which neod no mention.

In reference to the query: Does cold retard gestation? a friend writes from Harvley, Minn., that aftor the not severe season of 1881-82 his cows "all came in on time, but aftor the very cold weather of last winter they all ran oper about tro weeks."

## SEEEP AND SWINE.

## FEEDING YOUNG PIGS.

A corrospondent, writing to the Breeder's Gazette, says: In tho problom of feeding thore aro so many unknown quantitios that the majority of foeders of pigs go by guoss. In the absence of a thorough knowlodge of the feoding valuos of the articles used for foed, it 18 _ot strange that we find many amusing projudicos among raseors. It is a fact, however, that many of our most muccessful foodors and bredors kuow little about the ohemical constituents of the feod they use, or of the formulas arrived at by stience sa arrauging a perfect ration for pig, horse or steor.
Not one houservife in a thuusand of the many good bread-makers osn give any reason for tho action of the yoast on the duagh, and, perhaps, nover heard of carbonio acid gas, and, surely, never thought of the purt it plays in making tho broad light. Like Widow Bedotte, theese feeders of pigs and makors of bread go by their judgment, and none can be successful at feeding pige or making bread who have not what an old lady calls " good judgınatical sense."
An Irish noighbour, speaking of his success at pig feeding, zaid, "A man must look at his pig frequently. Yos, no pig will do woll muless you look at him frequently." A rushing, busy noighbour, who never took time even to count his pigs, but pitched them their corn and hastened away to his work, was always complaining of his bad lack with his pigs. His next noighbour, however, had fine success. When ho went to feed he first sam that the trough and feeding.floor wore olean, and then looked over his pugs to see if they were all there. If one or more were missing, he apared no time in seeing what the matter was and where they werc. The laggards found, and his pigs all at the table, he put in the slop, always careful that it was not too sour or that it varied little from what he usually fed; and he then onjoyed seoing how every pig pitched in for its share. When they were called for the corn he had time to get in among thom and spread the sorn out so all could get it readily, without crowding and fightug for the He evon had time to rub the backs of a ferr favourites, and to stand and look at them eat. His neigubour, commenting on his laziuess, said, "B. would hang on the jence a half-hour looking at his pigs eat; and he did this three times a day, yet he always has good luok with his pigs, and I know ho don't feed so much as I do."
This oircumstance illustrates about the same principle in the Irishman's plan of "looking at them frequently." The successful feeder likes to feed, likes to see thom eat, and likes to keep things in order about the pens and feeding-floor, that the pige may onjoy what they cat; and whe a that is eaten he loves to see them find comfort in cool shade, or to bathe in a clean stream, if he can have it so. Like a great hog raiser, who is most successiul in raising, feeding and selling pigs, and has a choice boar's quarters in the corner of a nice ton-acre meadow. "Well," said the writer to him, "Won't that hog damago a great deal of grass?" He replied, "Oh, yes, ho may muss it up a little; but there is nothing too good for a hog." Ho wanted that hog to do without grain; yet he wanted him to keep up in flesh, as his customers saw him whenevor they camo to the farm to look at his fino pigs. The old farmor felt the hog would pay him for all the grass he damaged. Hiş pigs would be the better the next seasou, and his fine glossy coat woald commend his get to every buyer.
In this case the succeseful man was eccuring comfort and abundance of the very best feed for that mach-prized boar. Good care and good feed are essential to best success in handling pigs.

Gonorous foedors aro not always wise in tho ra tions furnished. Some ovordo tho business, and by lavishly feoding young things with only fatforming feed, as if inttening for the butoher, got the pigs out of condition, and fit subjects for dis. case. Unless the pige thus fod are disposed of at an early age, they will likely go back or get out of condition when thoy are exposed to somo unaroidable extrome of heat or cold, or drouth or rain. Once set back, it is almost impossiblo to bring such pige or calvos back to protitable growth. Had tho young thinge beon fod more than mere fat forming foed, and bono and fibre had dovoloped in kooping with tho fat pul on, vigour and health had boon estallishod so that thoy would havo passod through the tax imposed by olange of weather and rallied at once, or not have shown any chook in growth.

## SHROPSHIREDOWN SHEEL.

Comparatively little is lenown in Amorica of the Bhropghiredown aheep. They have bcen justly styled the "sturdy champions of the medium class." The old favourite, Southdown, has had the monopoly as a mutton sheep, but must divide the honour with the Shropshires. Thay are not so large as the Oxforddowns, but carry a finer fleece, and are superior as a muttou sheep : indeed, it is asserted that the quality of their mutton is equal to that of the Southdown. The Shropshiredowns are now the popular shoep in England and Sootland, and aro becoming quite popular in Canada. They are hardy and prolific, and we find them to be extra good nurses. The average woight of a flock of breeding ewes will be from 140 to 160 pounds, and in good conditiou should weigh 200 pounds, more or"less. Aged rams will weigh 250 to 300 pounds in good condition. A flook of store and breeding ewes will shear from six to oight pounds of wool. The fleece is close and the wool fine, and from five to six inches long. Some eay that the fleeces are heavier, but wo seldom obtain over eight pounds, except it is from a well-fed dry ewe, or a ram.
The true Shropshire should have prominent hazel eyes, rathar thiok, short faces, hollow in the forehead, and broad betwnen the cars Dark brown faces and legs are preferrer as a matter of fanoy, though black or even mottled faces do not indioate impurity of blood. We added to our flock this season a pair of shearling erres, which took first prize at Norwalk, England, last fall, and their faces are very dark, almost blaok, and they have blac logs. Longevity is a marked characteristic of the breed. We find them muoh hardier than the long. woollod sheep which po have bred for many years, and the crop of lambs has been at least forty per cent. better, all having the same feed and care. This breed of sheop has spread throughout Great Britain very rapidly within the last ten years. Thoy prove valuable to cross on the White-faced erres, improving the quality of both wool and matton.

## THE CHEAPEST TIME TO MAKE PORK.

R. F. askes if a full diet of grass in summer and a full diet of grain in the wintor is not the cheapest plan for making pork. This, he thinks, would cost very little in sammer, and the chief expense would come in winter.
The chicf mistake in this ides which is very prevalont 16, that it gives a period of comparatively slow growth, at the very time whon the growth should be the most rapid. Grass is a very important food for pigs, and should alwáys be given thom in the season; bat to let the pig live wholly upon grass is to pat it back to the old slow-going condition of nature in the most favourable season for rapid growth. The skilful
fooder should make the best uso of his opportani. ties, and whon the temperaturo is mild it takes so muoh less food to generato animal heat, and the oxtra food will produco so muoh more gain than in cold weathor, that overy consideration of economy requires that some concontratnd food should be given in addition to the grass. The only really profitablo pig-feoding roquires judicious full-fecding from birth till timo of siaughtor. Ono hundrod pounds of grain, fod in summor on grass, will produce as muole gain as two hundred pounds fod in winter. All this difference is made up in tomperaturo. Pigs do not require heavy leeding in summer to produco a larger gam than they oan make in cold weather. A half ration of grain is quite sufficient in summer, and this smaller grain ration will pay twice the profit, according to quantity of that fod in winter.

It would thus appear that with a full ration of grass should be givon grain onough to produce rapid gain through the summer, and this will require much i.7ss feeding in winter to reach the same treight. The cheapest way to mako pork is to feed full evory day of the pig's life until sold. It is very expensive holding pigs with slow growth in the most favourable season-the summerand then making it up in the most expensive sea-son-the wintor.-National Lies Stock Jcurnal, Chicago.

## TAGGING SHEEP.

The attention that sheep get when their produots are high is thought by many to be labour thrown away whon such producte are low. This is wrong. The lower the price, ihe greater the necessity for placing a good artiole before the market. I have found tagging tho sheep at this time of the year a paying operation. Itag all of thom. Tags taken in February and Maroh sell for more than half price. Taken aiter the shcep havo been on grass, they won't sell for anything. Taken off now thero will be quite an equal clip as if left on, as the shoep will do enough bettor to add that much to the weight of tho wool. Two hands can make light work of it. My plan is to turn a box, or mako a platform, sbout two and one-half inches high, and large enough for one sheop to lie on. Lay the sheep on its back, and lat one hand hold the hind lega, while the other shears where the manare would solleot, and the bags of the crres, and a little from the belly of the wethers. Ewes with lamb must be handled carofully; and all sheep ought to be. In a full-blood Merino flock I find it sometimes necessary to shear around the eyes of the owes to ensble them to see their lambs. Neglecting this tagging job often leads to serious results. Worms will get on to many of them before shearing time, and in large thocks I have known many lost-Rural World.

## A WIRE FENCE FOR SHEEP.

The difficulty of making a barbed-wire fence to confine sheep is well lnown. They will crowd through small openings, if they have to leave their wool on the barbs. The following successful experiment was performed on a large sheep and cattle farm: The fence was first made of three barbed wires placed about the usual distance, with a ridge of earth banked up a foot high or morefas s visible barrier. But the sheep were not deterred by this insufficient fence, and they crowded through between the two lower wires. Two common, smooth and chesp wires were then added, by placing one on each side of the lower barbed wire. These smooth wires, although insufficiont of themselves to chock the animale, operated by crowding their heads against the neighbouring barbs, and tho attempt to pass became fruitlcss.

## THE DAIRY.

## how an iotia dairynfan milils.

As an oxample of what absolute cleanliness in the dairy menns, we take tho following from The Dairy, contributod by au Iowa dairyman :-
"It is snid that it is as hard to bo clean as it is to bo good. Woil, I think it is not hard to bo good, oven for a dairyman, if ho only does as ho would be dono by, and just as easy to be clean. This is my way. At five o colouk I am in the cow stables. The foed proparced the night bofore is put in the foed boxes, whioh aro first oleared of all rompants of formor feed, and, if sour, they are scoured out with water and a broom. While the cows are eating, they are thoroughly oarded and brashed as well as nny well-kopt horse, and all over from head to switch. The uddor is sponged if nocessary, and wipod with a clean towel and not a dungy rag. The guttors are all cleaned out, and the stails; a common road broom being need to finish aftor a broad scraper, whiod draws the manure down to the trap door into the cellar. The floors and the gutters are then littered well with sawdust, when we have no straw. For fifteen cows this takes an hour. Thon I go to breakfast. At half-past six the cows are milked, each milker has overalls made of stripod ticking, with which he can milk in his Sunday clothes and slippers if he likes, and any lady oan go in with a sills dress on and not hurt it. As the milk is drawn it is strained at once into the deep pails that stand cn the platform and are kept covered; the milk pails have strainers, and a donble strainer is kept in the deep cans, so the milk goes through three strainers. But this is not really necessary, as I would oheerfully drink a glass of milk direct from the cow as I milk it. But out of consideration for my customers who buy my butter and milk, I put the mill through three strainers. As soon as the deep pails are full, they aro closed and carried to the milk house and handed to the person who sets the milk in a pool or the creamery, or, if it is put into shallow pans, strains it once more. Now, there is nothing hard to do about this. It is so easy aftor having begun it and got into the way of it wat it would be hard to stop it. And I don't see how it is easy to be cleaner than we are in our dairy."

## LIMITTNG THE FLOF OF MILK.

The highest profit in dairying comes from large yields of rich milk. This being settled, it is sometimes taken for granted that the larger the yield the greaiver the profit will alweys be. A large production of milk is certainly a good thing, but it is possible to strain production so hard as to get too much of a good thing. There is a limit to which the flow of milk may profitably be carried. If the secretion is crowded too hard the product becomes vitiated. It will become more watery and will decay sooner. It will contain more fragments of undissolved tissue, the result of excessively rapid decomposition and waste of the substance of the milk glands. There will be more forcign matter in it in a solid form, and there will also be a more frequent sprinkling of blood globules. Scattering globules of blood are of frequent occurrence in large yields of milk, and the larger the yield the more numerous they are apt to be. In cases of very excessive production they can frequently be detected in the bottom of the vessel after the milk stands awhile, as being heavier than tho mill they settle to the bottom. Occasionally, at the last end of a milking, the blood will
follow out nearly pure. When this extrone has been reached the secrotion is too large, and it may bo romedied by leaving back a part of the milk at each milling, till the flow dries down to an amount the food and the vigour of the cow can sustain. Then the sovero strain on the mammary glands which excessivo production occasions wears them out prematurely. By becoming overdone and debilitated, they become subject to injury and disease from slight causes, which would be safely endured ly organs mure healthy and vigorous.-Nutional Live-Sluck Julurnul.

## BLTTER-MAKING A FINE ART.

I look upon butter-making as one of the fine arts. No man or woman can make good butter without the sensitiveness of good taste to recognize what constitutes the excellencies of butter. A's butter comes to me, and I :ell it for twenty or twenty-two cents a pound B's sells a little higher; C's higher still; while D's brings thirty cents regularly. I have been in dairies where the flavour and working of the butter were excellent; but it goes down into the cellar and stands several weeks before it is sent to market. There is a hole in the cellar wall where the air constantly enters; the temperature is constantly changing, and the butter changes, too, or gets tainted. If farmers will make their butter well, then put it where it will keep; it will do much better in the end. Perhaps the soil of a man's farm is low, springy, and wet; then the feed will be sour, and you cannot get nice butter out of that, either dairy or creamery. The flavour of the butter depends largely on the flavour of the feed. In order to make fine butter in the winter-time, the utmost cleanliness must be observed; must wash the cow's udder in warm water and dry with a cloth. If the atmosphere is bad, your milk will be tainted. It depends upon circumstances whether it is safe to set your milk down in an improperly cleaned or an improperly ventilated stable. As soon as the milk comes to the exact temperature of the surrounding air, it absorbs the impurities therein.-Austin Bellnap, President of the Boston Butter, Cheese, and Egg Association.

## FEED AND YIELD.

"With many breeders it has always been an open question which is the better for prrducing butter-breed or feed. In other worde, can the cow be made to greatly improve in the quality of her milk by giving her richer food? We say practically this cannot be done. The c.aly truth there is in it is that by many years of diligent work a cow may be made to increase the butter yield of her milk in a small degree only, and she may transmit this quality to her offspring, and if the rich feed is continued the characteristic of yielding rich milk may be set in the breed or family. This, we presume, is the way in which the Jersey breed was originally created. But the idea that a Shorthorn can be made to yield Jersey milk or a Jersey be made to pield Shorthorn milk, by simply changing the feed on thom, is preposterous. It has been tried over and over again with no parceptible degree of change. To bo sure, many loose exporimenters, and the woods are full of them, have proved that a cow will yield more butter on rich feed than she will on poor feed, but ahe cliso gave a much larger quantity of milk at
the samo time. The poiu' is that the charactor of the milk is not changed so far as butter yield is concerned.
"The wisdom of nature's provision against this change is seen when your attention is called to the fact that should a cow chango the character of her nilk every time she got hold of rich or poor feed, the calf's stomach would bo in a constant state of eruption. You may spoil the flavour of the milk hy feeding the cow on turnips, cabbage, or onions, hut this would have no bad effect upon the calf. Fright or distress will greatly change the quality of her milk, and its effect may bo readily seen on the calf, or especially on young childron when fed to them. The doctors say nothing can be more injurious to a nursing babe than a sudden and overwhelming grief to the mother as an accident or sudden death in the family. The young animal requires a food of uniform quality, except that it may, as it does with the cow, get richer and richer as the cow advances from parturition and the calf becomes older and stronger so as to requiro and profit by drinking richer milk. This gradual clannge is in conformity with the requirements of nature, while sudden and abrapt changes would work great mischief, which is contrary to the law of nature."

## TEMPERATURE FOR MILK.

The following experiment, if it dcas not prove, certainly tonds to show, that a low temperature is desirable in deep setting. In each oase the milk was skimmed in twolve hours:
Milk, 200 lb ; Cream, 44 lb ; Batter, $10 \frac{1}{2} \mathrm{lb}$. T Tomp., $40^{\circ}$.
 In this case ice was used to regulate the temperature, and it could not be kept precisely at the figures given.
The same principle does not apply to eetting milk in shallow pans-let so.ne philosopher toll ns why. In setting milk in a warm room during the winter months, it is well known that the pans upon tho higher shelves will give the most cream.

## DONT OSE WOODEN VESSELS.

We have always been opposed to the use of wood in the dairy, such as pails, covers to milk pans, and even churns, if it can be avoided. If one of these pooden instruments has been in use in the dairy for a year or two, on a hot day you should take a good smell at it and you will be surprised to find what an old, funky odour there is about it. Crockery ware is not much better, and it has the further objection of being heavy and brittle. Tin or galvanized ware is the only proper material to come in contaot with milk, and should not only be thoroughly washed and drier with a cloth, but should be subjected every day to the cleansing power of a jet of steam.

THE editor of the Daivy thinks that soiling must of necessity become the common practice on land of a high value. To draw a line, as must be done somewhere, he thinks land worth more than. $\$ 20$ per acre should not be used wholly for pasturing. That if one cow can be pastured on five acres at this value, then it is clear that one cow should be kept on one acre worth $\$ 100$.
TaE practice of farmers, who take their milk to cheese factories, of carrying home whey in their milk cans is strongly condemned by an eastern journal. The sour whey contains not only the germs of acidity, but the peculiar ferment of the rennet, which, unless more care than is usual is taken to cleanse the cans, will contaminate the milk when filled again. A barrel can be used for carrying whey, and all danger from this source avoided.

GOOD PAY TO AGENTS. Aponte rantod in orory fillago, town, and toraehif, to make
 Crens O. BIAOESTH ROBLASON,

Jordan Streat, Toronto.
Che 思urat Canaliau.
TORONTO, SEPTEMBER, 1883.

## THE FRUIT-GROWERS' ASSUCIATION:

The summer mecting of the Ontario Association was held this year at St. Catharines on the 30th and 3lst ult. About fifty morabers were preent, and the discussions were of an interesting ana instructive character. The subjects related chedy to the best methods of cultivating fruts, and the most profitalle sarieties fur inarketing. The opinion fis almost unanmous in favour of the propasition that fruit-growing pays in Ontario; bot with tho qualification that varicties must be chasen with regard to localities, and that slill and knowledge are required in planting out and caring for orchards, garderis and vincyards. It was shown that more moniy way be made of one or two acres in currants, gocseberries, rasplerrics and blackberries than many farmers in tho Province make of their hunured acre farms. The seme remark is trae of apples, as instance a statement made by 3Ir. J. P. Williams, of Bloomfield, Prince Edward county. Mr. Williams has an orchard of twenty acres, and he has already this season sold two houdred barrels of the Red Astrachan variety in the Mroatreal market at prices ranging from $\$ 4$ to $\$ 5$ per tarrel. With a full crop of apples he would realize at averase prices about $\$ 3,000$ from the produce of his orchard, taking one year with another. This is very encouragingtofruit-growers, and with the fine soil and climate of many portions of Ontario, there is little doubt that fruit-growing might be conducted nrofitably on a much larger scale than has hitherio bren attempted. This is capceially true of the Lake Eric countios, and since the United States Congress has plaved fruits on the fro list- the amendrd tarifi went anto operation on the lst oi July-their opportumties hare been widely catended. The canning industry is also $z$ great boon to fruit-growers.

## NOSIUIOS HEEEDS

3nch lias been mitten on the subject of dirts farming, bat obrionsis much more must be nititen ord done before sainsfing progreas is mede in cicaning fanms of their nomons michs. The Caneda thiste is perhaps tho morst of these, sad it secms to be stexdaly spreading orer the facs of the whold conantry. Ict is as not a diaticalt terts lo kill off tho Canaja thistle A goci summerfallowing of the ground, folloned bs a thick crop of clorer, will usually exturmingte it Clover is indocia a fell destmper ef noxious meals, expecialis the alsike if sown in a saitable suil. Baf the truable is that a great many farmers aither doa"t know how to deal with this pest, or are too negligent to grapplo with it. Instead of secting the infected ground with clorer, ther either standon it to the thistle er pat it under $x$ grain cror tito ano is aboat as grent a mistake As the fither, and with $\pi$ now crop of scat ripening orery soavon, it docs newt take lang to corer in catire nciphboarlioed. The dumny senis are carried by tho rinds fur miles in erery directuon, and so it comere that tire giccit farmex is mado to sufier fur the carclessiness of the bad. It is trao that thero is a law to prevent the sprad of Canade thistlas, bat mofortunately it is too geseralls a doad Jeticr:" And the ressen of tho lar"s fallare is this, thest these is no proper sysicm of inepeo tive. The crersect of kighmass mag bo anxious
onough for his own sake to oheck the evil, but he is naturally averso to prosecuting his noighbours in the courts, or to enter upon their lands and destroy the thistles at thoir cost. What seems to be necessary is the appointment of one inspector for a township, whose duty it shall bo to rigidly enforee the law. Nor should the operations of the lave bo limited to Canada thistles. Thero are many other weeds hardly less injurious, among them being wild-mustard, ox-eyed daisy, wild oats and rag weed. A law that would apply to these and all other noxious weeds, ns well as black knot and any other contagious disease affect. ing frnit trees, would doubtless do much good. But in any case it is useless to continue the plan of inspection by the overseers of highways. Ono official for a tormship-and his appointment shuuld bo ubligatury un erery Council-would gire moro satisfactory results. Clean farming deserves to be oncouraged and protected.

## M.ARKET PRICES.

The prices of grain, the produce of this jear's crop, aro not jet defuitely fixed. The coarse grains especially barley and oats, are not likely to go much higher than they now are, the yield being large and the quality fair. Corn is litily to increase, for both in Ontario and in the Uuited States, the product is almost certain to bo considerably less than last year. But, with respect to wheat, it is difficult to make any safe prediction. It has been knorn for some time that the yield is short of last year's by many millions of buslects, both in Earope and America; and yet the market continues sluggish and prices almost unchanged. Trustrorthy reports show that in Ontario the deficiency this year, compared with last year's crop, is $14,000,000$. In the United States it is less than last year's by fully $70,000,000$ bashels, in England by 11,000,000 bashels, rand in France by $80,000,000$. In Russia also the fall whest is a failure, and it scarcery reaches an averago in Germany and Austro-Hungary. These figares shom a total deficioncy, compared with last jear's crop, of $175,000,000$ bushels. With sach facts known to the world it does seem strange that the price of wheat should not adrance. It may be, indeed, that there is an ancertainty as to the actual produce, or perhars that the large dealers are "bearing" the market rith a viem to fature operations. Wo shall bo surprised, horever, if there is not an apward morement in the course of the next six reeks. The nesalts of the thrashing season will soon become kuown, and from information which is now resching as from differcat parts of Ontario, it is almost certan that the deficiency will turn out to be greater than has been estimated.

## OTTARIO CROP REPORTS

The following is a summary of the report just issued ly MIr. A. IBlue, Secretary of the Buresu of Industries:-

## Whent.

The area under wheat this year is $1,676,515$ acres, the estimated produce $26,759,439$ bush., and the average ficld per acre 15.6 bushels, but later returns will probably redace this cotimate- Last year the anes under whent ress $1,775,337$ sacres, the produce, $40,921,201$ bushels, and the avcrage sield per acre 93 bushels Thetubal ance of fall wheat somn, as returned by townchip assessors for this yecr, was 1,178,059 acres, of which S8,734 are reported as having been ploughod up or resokn. The breadth of sming wheat sown is nearly the sume as iast jear.

The return made by farmers on the 15th of June showed that they had in reserve at that date $5,453,485$ bushels of old wheat, or fully six months' eupply for the whole Province. The quantity hold by millers and stored in warchouses has not been ascertained, but it is not large.
Barley.

The area of barley is less than last year by 91,000 acres, and the estimated produce by $3,670,000$ bushels. In the western counties of the Province it was injured by the excessive rainfall of June and the first half of July, and the bulk of it is not a good sample. In the counties of York. Durham, Northumberland, and Prince Edward a large acreage has been reaped and housed in excellent condition.

OATS.
The acreage under oats is larger this year than last year, and the crop is reported to be an excellent one in all parts of the Province. Like other crreals, it is about two weeks later than usual in ripening. The estimated product is $5,626,000$ bushels more than last year, and the average yield is nearly 40 bushels per acre.

## RTE.

Rye is only moderately good. The winter variety fared better than the fall wheat, but the spring rye was injured by rains and the stand was light.

## pers.

Peas has been a good crop in the northern and north-eastern counties, but in the West Midland and Lake Erie counties it was scalded or drowrued out by the rains. The area is somewhat less than last ycar, but the estimatod produce is 775,000 bushels more.

## CORN:

Corn was planted late, and the wet reather of June and July did great injury to it. In some sections of the Lake Eric counties, where this crop is chiefly grown, it was drowned out by the heavy rains, and excepting on high lands its condition at the beginning of the month was generally very poor. The area of growing crop has doubtless been considerably reduced by the unfarourable weather. The bean crop is in a more hopeful condition, as also is buckwheat. The total area under com, beans, and buckwheat is shown by the tables to be 313,013 acres, against 270,297 acres last ycar.

## may and clover.

The crop of hay and clover is doubtless the langest ever grown in the country, and the bulk of it has been well cured and safely housed. The area was 2,359,521 acres, and the estimated produce $4,127,419$ tons, agrainst $1,-$ S25, 890 acres and $2,000,620$ tons last jcar. It will be remembered that last jear the clover wis almost completels ruined by winter exposure and spring frusts, which fully accounts for the smaller area and the lighter field as compareit with this year. Tho second crop of clover was making fine growth at the beginning of the month, but more recent information gives ground to the fear that in many localities the seed will be destrojed by the midge. This new pest is rapilly cxtonding to all parts of the Province.

## noors.

Roots made slow progress in the early part of the sesson, in consequenco of the excess of
rainfall, but the reports show that in the last balf of July they made rapid and healthy growth. The chief difficulty experienced has been to keep the weeds in check. The area under potatoes is 167,302 acres, against 160,700 last year; and under carrots, mangolds, and turnip 127,198 acres, against 104,569 last year.

## fRUIT.

The fruit crop is to a large extent a failure in all parts of the Province. With the exception of plums and small fruit there will hardly be sufficient for home consumption. The trees are, however, in a healthy state generally, and have made a fine growth of young woul. Black knot is rapidly killing the cherry trees, and in some districts the plums trees also. The total area uncier orchard and garden this year, as collected by township assessors, is 200,840 acres. Last year's return, which was in part estimated, was 213,546 acres.

## area of cleared land.

The area of cleared or improved land in the Province this year is $10,587,688$ acres, of which $7,745,627$ acres are under field crops, and orchard and garden. Last year the area of cleared land was $10,172,712$ acres, of which 7,326,859 acres were under crops, and orchard and garden. It thus appears that, without taking account of flax and tobacco, twentyseven per cent, of the improved land is in pasture or fallow this jear against twenty-eight per cent. last year.

## dairy butter.

A return of the dairy butter produce of last year shows that the quantity made was 33.442,123 pounds; but a large number of farmers were unable to fill the schedule under this head, and it is probable that the quantity given does not represent more than seventy per cent. of the actual productionpossibly not so much.
creanemes and cheese factories.
There are in the Province this year twentynine creameries, or thirteen more than last year. Tho produce of seventeen of these from the beginning of the season to the 31st of July was $250,908 \mathrm{lbs}$, of which $217,855 \mathrm{lbs}$. sold for $\$ 45,146$. The number of cheese factorics is 62 S which is 151 more than the number reported to the Bureau last year. The produce of 262 factories that havo made returns for the seme period as the creameries was $10,833,507 \mathrm{lbs}$, and of this quantity S, 431,372 lbs. was sold, realizing the sum of S903,310. The quantity of checse on hand at the 262 factories on the lst day of August was $2,402,135 \mathrm{lbs}$.
" your paper did not cone, sir"
We recommend a carcful perusal of the following plain statelent, from a ten-year-old exchange, both to postmasters and to subscribers:
"The uncertain arrival, or uncertain delivery of papers at country post-offices, is often the ground of complaint against publishers and editors. Many of the offices aro poorly supplied with conreniences for taking care of papers, no matter with whet certainty thoy arrive. The papers are jumbled into a fow littlo pigeon holes, or piled upon a derk, box, or barrel, to await the call of subscribers-in
the midst of boots, hats, bridles, hoise collars, and other coarse wares, which may be called for during the day by customers. Country postmastors, in most cases, being engaged in some mercantile business, many nowspapers find their way into some obscure corner, where they are hid for a time from human eyes as completely as if buried in a mountain cave. in comes the man for his paper, and as it can't be found, of course it didn't come. The indignant subscriber consequently abuses the rascally editor, and perhaps calls for pen, ink, end paper, to write a letter of complaint about not sending his paper punctually, when, if the said paper were endowed with speech, it would cry out 'Here I am, squeezed to death behind this box, or under this barrel.' We haveseen just such things at many country post-uffices elsewhere as in this country. These remarks havo no reference to any particular office, but are meant for all where they will apply."

## AN EMGGRANTS outfit.

It is highly satisfactory to find that Einglishmen are beginning to fit themselves for colonial life. The only danger is that the outfit may be too elaborate. In a recent number of the Nineteenth Century, Major-General Fielding in an article entitled, "Whither Shall I Send My Sons?" expresses the opinion that the average young Englishman shoold be the master of fourteen different branches of theoretical and practical oducation before he leaves for the colonics. In the first place he (1) must be a gentleman with the instincts of duty and honour, and with a tolerable knowledge of Latin and Greek. (2) Mrast know the theory and be siilled in the practice of farming. (9) Understand the breeding, breaking in, and haudling of horses. (4) Be able to construct rough timber bridges, dams, tanks, cte., and must be acquainted with elementary statics, dynamics and hydranlics. (5) Know rough surveging and lovelling. (6) A fair practical aequaintance with rough carpentering and the crection of that class of buildnge used by settlers on the outsarts of omplization. (7) Fair knowledge of seamanship. (8) Principles and constraction and ase of the elements of natural and chemical science. (9) An intimato and practical acquaintance with all the many arts and contrirances which enable an experienced traveller to crist in health and comparative comfort, whero a man ignorant of them would probably fall into ill heallh and starre. (10) Fractical knowledge of cooking. (11) Uise of the moodman's axe. (12) Tho trades of a wheelmight and harness maker. (13) Geology and mineralogy. (14) Thorough knowledge of book-keeping.
This is a pretty claborate corricalam, and one which, in the main, can bo dispensod with withont any serious loss to the young emigrant. If he has a good constitution, if he is willing to nork. if he is ready to tarn lus hand to angthing, the English cmigrant to the North. West cannot Fail to succeed. Thase are the essentials. Latin and Greeb, seamanshin, statics and so forth are noncssentials, but no donbt they aro usefal enough provided tho young man is thoronghly equipped with tino three fundamentals deccribad. General Fielding, howerer, csunct folly train his sons in England for coloniallifo; the best training groand is the colonies themselves.-Nor:- West Farmer.

## helpfui havis


Goorge E. Waller, an Euglish immigrant tho recently sottlod ncar Fort Ellice, appears to bo verg nall satisfied fith his lot in tho North. West, judging from tho following lotter from him, which appeared in tho Mranchoster (England) City Naws
of dato June 23rd. Mr. Walker appears to have been weill satisfied also with the trentment ho received at the hands of Captain Gralame, Dominion immigration agent at Wiunipg. His letter is as follows:

Farlands, Besscarth, Fort Ellico, Manitoba, June 1, 1888.
Sin,-In.the hopes that it may bonofit a largo numbor of intending emigrants to this magnificont country, may I offer $\Omega$ fow suggestions from my own experience, whioh is recent.
In the first place asts the advice of the Government oficials, who are both qualified and willing to give any information before you start. Mir. Dyke, of 15, Water strect, Liverpool, is a gontleman of much experience and courtess, and will givo advico how to get here, and the most likely districts to luok in. All infurmation is willingly given and gratis. On arriving in Wiunipeg, the "centro" of the North-West, by all means at once go to Mr. W. C. B. Grahamo, a most obliging gentleman, as I well kunw from my own expericuce, having found him a friend in need. He will give definite and roliable advico as to the most desirable locality to examine, will assist in tho choice of oxen and implements, and see that the now comer does not suffer from sharpers and general want of knowledge in this country. His practical kuowledso and genial kinduess have endeared him to many of the present settiers, who would havo had to pay learily for their experience had thoy not met him. Think carefully over the advice he gives, and then take it 1 Make up your mind to go in one particular localty, after careful inquiry, and then go. Do not wasto your time and mones in thinking you "will do better" aftor you have found a reasonably good place; or after you have travelled many milos and syent many dollars. You will return to it in time to find out a sharper man already established on it.
Do not be persuaded that all the land is taken up. Jy own farm was found in a district "already taken up," accordiug to many interestod speculators. Do not imagine you can live with a family on $\$ 20$ a year, or that you can mako enough to kieep you, build a house, stable, and the rest, nll the first year if you land in the midale of May. Do not bring your wife and children till you hare been to get a place ready for them. It is cruclty to do so. Du utt drink, do work, take caro of your health, never forgetting that cleanliness is closely allied, if not next to godliness, read your Bible, and you will undoubtedly be a successful man.

Geonge E. Walier.

## PROGRESS IN THE COIV BUSLNESS.

1 correspondent writes to $\Omega$ contemporary as follows:-Undoubtedly wo do improve in some respects, and it would be a barming shame if mo didn't, there is so much chance for it. One very gratifying improvement of tato is the prominence given to milk in estimating the raluo of corre.
A fer years ago mhen Darhams, Derons and Hercfords wero claiming distinguished consideration, there pictures sloored fine heads and necks, straight broad backe, the straightest possible hind legs, and a rery smail tail at the rear end of their exquisito make-up-nobody noticed or carad Whether thes gare milk or had any place to putit

It's different now: Jersoys and Holsteins aro having their boom, but they don't send round their pictures unless the milk errangement is about as big as tho rest of the body-thoy may be a littlo irregular in ontlino (Darhams nerar were), their contour may not come up to the rsthetio standards, but a prodigions bas pats everything to rights. This shows progress. Wo aro begianing to taice in tho grand conception that milk, good milk at that, is the chicf cnd of a con! Specral differcat coms, now claim to bo doing better than auy cow over did before-ithis is progress of a noticeable sort.

Hero tro haro a Baltimoro corn, "Value 2nd," making 25 lbs 2 and $11-12 \mathrm{oz}$ of butter in soron dajs, 8 Jersoy. Others are reporiad at tho samo figares. Thi is form times as mach as cors will average. Crodit one half to extra foed and care, and tharo is still a great diffurcuco in coms.

## BEES AND POULTRY.

## "hnIER PREPARATIUN.

Nature provides that the beos shall store their gathered sweots abovo their brood, in ordor that the bee just crawling out from its cappod coll may find tho wheromithal on which to feed; and whenever the weather is suitable tho bees may stay on the ureapped lroud to keeff tharn, but leave it to its fate as soon as it becomos too uncomfortably cu'd fur them to remain. Thes fact teaches us in what way we should force our bees to place their stores in urdor to winter with the greatestassurauco of safety. I winteron summer stands, and hnving never put my bees in a special dopository, can give nu rules fur those who wab to wintor in cellars, ctc.; but as I have lost but one col byy in sixteen gears ou their summer stands, perhaps my method may $b$ : of interest to some who may not desirs to tako the trouble to move their bees, as they would have to do, to winterindoors.
Nearly all bee-keepers begin preparations too late for wintering. The rule with me is to winter on no more than supen standard $L$ frames, no matter how strong thic stock. The stores I cause, either by extracting, or feeding as the frames may-be full or empts, to occups the appor half of all these frames; Which gives sufficient stores for the longest winter. Having got the frames in the right condition as abore, $I$, on the approach of cold weather, cause the cluster to occupy one or the other side of the hive, by changing the framos they are ou, in order to force them so to do. I thon give them abont one inch of space in which to cluster, over the tops of the frames, by laying in little strips of pine deal, to support the cerering quilt ; which quilt I make of light cotton dack, burlap or some other porons material. In the space thus formed between the mat and tops of frames, the bees can claster, and thus ada to their chance for warmth, nud also can commanicate easily from one frame to another, without obliging us to disfigure the sheets oi comb rith minter passages through them, after su placing the mat that no bee can possibly crawl up around its edges.
I put on an upper stores and fill at with forest leares or chaff, pressing it loosely down on the mat. I to not use a chaff cashon, as I find it too compact to allow the moistare generated in the hire to pass off frecly. Now a ram-proof corer with a one-rud-a-half inch hole in each cnd covers the bees, and then the entrance as contracted to sis or eightincles in length for a strong colony, I consider my becs are safo until the fullowing spring.

I use donhle-walled and single malled and chaff hives with equal success, and consider that success is achieved more by the manner I preparo my becs, than by the hires in which they are kept. IIy apiary, I will say, is well protected from rind and storm on the north and rest by an ossag hedge, and where no protection of that lind is practicable, I think a clasf hive nould be an adrantage. Much has been sasd and many argaments made in iavour refall, very tall hives I thins tho cariunents of tall hives are honost in their belief, aldiongb mrong, and hare based their faith on ansound principles. That bees in cold weather claster near the top of the inive as the frames will sllow thina, anyono can prove daring tho comirg mivter. and that the stronger colony will cluster in a diameter, they can also proro at tho eame time.
Now as tho bees geremate all heal containca in the hire, the problem is simply this: In what form or shapo of frame can the becs best coonomize tho heat lieg geucrate, when they aro at tho rery top in a cluster eight inchss or less in diam.
oter? The answer to me is, one just large onough to contain the cluster, and wero it not for the faot that we must have a larger frame than this, I should adopt a frame eight inohes square, but it has been found that the hive must be of a certain size in order to give good results, so the problem changes to this furm, viz. What shape or form shall we give to a frame that contains about 144 squarc inches, in order that a cluster of bees oight inches or less in diameter, shall heat it most economically, sail cluster vecursing tho extreme top part of the hive?
The Rev Mr Langetroth solved this problem to his satisfaction, and to mine, aud from the statistics of last season's wintering, I should judgo to the satisfaction of the majority of bee keepers. If there arg auy who believe still that a tall frame is the warmer under such circumstances, I would advise them to try the oxperiment of attempting to heat a high room, with a small stove at tached to the ceiling overhead. If they don't find a tremendous cold space below, I am much mistaken. With the I frame the cluster reaches from the top to the bottom of the hive. With the tall frame, a space equal to two thirds the capacity of the hive is below the bees, with cold air constantly coming in at the ontrance.
When our bee-keepers forget the traditions of the darl ages, understand that a hollow tree and a modern hive are two different thinge entiroly, and learn to apply science and brains instead of pre-conceived opinions and notions to their buginess, then will apiculture take a start and go forward with immense strides toward the day when losses in wintering will be the exception, and hardlyiknown in the most rigorous winters of the coldest parts of the norld.-Home Farm.

## FRESH EARTH FOR povLTry.

To fowls in confinement fresh earth is just as necessars in assuring healthfulness and vigour as ${ }^{18}$ good food, for the soil in the poultry yards soon becomes nacked down so hard and solid as to defy the nalls and toes of the birds while their droppings soon foul the earth as to make it objectonable in many mays. In winter as well as in summer, this fresh earth should be liberally sup. plied, and loam is the best. If there is proit sod attached so mach the better, as the birds can get some green food as well as fresh earth at one and the same time. As a rule, tre lave supplied birds in confinement with fresh earth by spading ap a Ittle of the jard withn therr enclosure aach day or tro, and the way the birds set to and scratch it over is convincing proof enough that thog libe it hugely. This is well enough the first year, and daring summer, or when the gronnd is not frozen. bat when quite 2 large ficek of forls are kept in a comparatively small space, tho soil becomes so impregnsted mith manure as to be anfit for spading orer for tho binds, the second or third year, and our adrice in this caso is to mako a new rand and turn the old ono into an onion patch. Such a place will raise fine omons, but it mast be ploughod well the preceding fall as well as the following spring, to make it as fincly broken up as possible. It woula bo well for some of our extensive breders to zet on this suggestion.

## THE POLISH FOWL.

This rariety of forls has not been bred to so large an extent as hare nearly all other taneties, sod many of our readers aro not famular with this breed nor its merits. Thero are 50 ercal different rarieties of tho crestod Polish, though in almost all points, but colour and markings of feathers, they are mach alike. Tho whito crested black folish is better known than any other of the Polish breceds, and thero aro eoreral brocders
who make a apecialty of them. On largo farmes, or where havks and other enomies abound, the orested Poligh are apt to fall an easy pros to tho thioves, as their heavy crests provent thom from secing the near approaoh of danger until too late to seek shelter and safety. For medum. sized places, where there are large yards and not any danger from winged onomies, they are desirable and profitable, and especially so where thoy havo to be confined in an enclosure, their range of sight opurhead buing cat off by their orests, and they thus seldom attempt to fly over a fence of ordinary height--from four to fire feet. They are nost escellent layers of large oggs, and therr flesh is very fine. The black colour of their legs, or rather very dark slaty colour, makes them an. deairable for general market purposes, the demand in oar lerge city markots being now principally for birds with bright yellow legs. Under favourable circumstances they are hardy, and produce strong, healthy young. As they do not have any combs to get frozen, Jack Fröst does not have mush chance to affect them in that quarter, at least. For ordinary farm use we would not recommend them alone, though they are good to run with a flock of others.-Farm and Fireside.

## BREED CHARACTERISTICS.

One would natarally expect that the larger breeds would ontlive the smaller ones, but this is not always the case. These large Akiatics are shorter lived than most of our ordinary poultry, and seem to lose thoir laying qualities youngor than many breeds; in shorit, they wear out young, but are most profitable while they last. After attaining to about three years of age, they seem to get infirm, take on fat when well fed, and become unproductive, while some breeds, like the Dorkings, are not in their prime till two years old, and keep up their vigour till sis or eight years old. Young Dorkins lack the cqustitution oi the Assatic chickens, but get stronger when fall grown. Their principal tronbles when suaug appear to be throat and lung diftcultics after passing a certain atage, they seem to have ontgromn this difficelty and become hardy.
Spanish forls feather quite slowly, and are quite sensitive to wot and cold dorngg therr halfnaked period. Leghoins, belonging to the same class, fenther very quickly, and the browns are remarkabls hardy while very young. but are not hardier than most others when adnlts, being as lisble to roap as other breeds. These breeds, having single combs quite large, and large rattles, are pecaliarly lisble to disfigurement by freezung in cold weather. All the Hamburgs, Games and Bantams aro predisposed to roup. Tho Polish haro delicate constitutions, as also tho French, of which the Houdans are the hardiest. The Plymonth Focks, descended from a cross of the Asistics and Duminiques, seem to have tho hardiness of the former aganst cold added to the general hardiness of the latter.-Country Genteman.

It is said a hen ought to lay six hundred eggs doring ber lifotime. We fear many hens, like most people, fail of their full duts.
Dernia his recent risit to the Rojal Agricultaral Society's Exhibition at Tork, the Prince of Wales risited the stand which is specially set apart for Caugdasn crlubits. It was pointed ont to him that the Dominion Gorernment rere, as far as possible, shomzag what could be grown in tho far North-West, and desircd to show its products in order to encoaraso omigration. The Prince was much intercted, and expressed his surprise at the wonderfal dorclopment of Canada doring tho last for joars, and his regret that at prosent he wes urablo to visit it from tho pressuro of other exgasements.

## MISCELLANECUS.

## FOHN BRISBEN, NOBLEMAN.

Colonel George W. Symonds, in the "Detroit Free Press," says the Governor pardoned John Brisben, a Penitentiary cunvict, to-day. ITe was sent up from Buurbon for fifteen years for forgery, and bad ten years yet to serve. Our readers are familinr with the history of this case, and
the humane action of his Excellency will be generally com. the humane action of his Excellency
mended. - Frankior $\left(K_{y}\right)$ Yorman
I read this little paragraph, and my misd went back aix years. I knew John Brisben, and I also knew his twin brother Joseph. 1 was tamular whis the detants of the action the sad affair is brousten in a felon's cell, and now when wnte it out, for never betore have I met, sn prose or poetry, io real life or in sumance, a greater hero than plain, matterof.fact John Brisben.
The Brisbens came of good stock. I think the great grandfather of my hero emagrated to Kentucky when Kenton's station, between the present city of Maysville and the historic old town of Washingtod. Was the principal setticment on the "dark and blowi' ground." He came from Upper Pennsylvania and licated sbout five miles from the
Ohio River, on Limestone Creek. Iie was an industrious Ohio River, on Limestone Creek. Hic was an industrious,
strong.lumbed, nron-heanted old fellow, and in a few years strong-lumbed, 1ron-hearted old fellow, and 12 a few years his sarroundings were of the most comfortable description. One of his sons, Edwin Brisben, once represented Keniucky in the Fedral Congress. I thinle he pas the grandiather of John and Joseph Brisben. Their father's name wras Samuel, and he died when they were little children, leaving his widow an excellent blue-grass farm and a snog little fortune io stocks, bonds, and mortgages. The widow remained unmarried until her death. Mirs. Samuel Brisben was a good woman, and she idolized her twin boys. Like most twins, the brothers resembled each other in a strikiog manner, and eren intimate acquaintances could not tell them apart. But although the phrsical resemblance was so strong there was great dissimilarity in the disposition of the twins. Joseph Brisben was very suriy and morose, sometimes cunning and revengeful. He was withal a dreamer and enthusiast ; a man well learned in books, 2 briliant, frothy talker when he chose to be sociable (which was seldom), a splendid horseman, and a most excellent shot. John Brisben, on the contrais, was cheerful and bright, honourable and forgiving. He was a man of high moral principle, intensely practica and methodical, cared litle for books and although he said but litle, was 2 splendid companion. He was 2 poor horse man, and I don't think he ever shot a gon in his life. He saw nothing of the poetry of life, and as for sport, he enjoyed himself only when bard at work. He loved his brother, and when they were boys torether suffered panaishment many times, and uncomplainingly, that "Jodie" fice, but the object of this loriog adoration made but shatiby fice, but the object of this loring 2
returns for this unselfish devotion.

They were twenty years old when their mother died rery suddenly. Joseph made a great pretence of grief led away.
John, on the contrary, never demonstrative, took the greal aflitition Fith his customary coolness. He sadd but litt!c, 20d shed no tears.
The property left to the boys was consuderable. The day they were iwenity-one jears old, the trastees met and made seltlement. There was the blue-grass fanm, ralued at $\$ 50,000$, and $\$ 100,000$ in well-invested securiues, which conld be tarned into money. Joseph demanded 2 dirision cut out for a farmer. Give me $\$ 75,000$ in money for mis share."
So this sort of dirision cras made. John continued on at the homestead, working in his plann, methodical may, and slowly adding to his state of the money what he cond rase acyeired wealth, set up an establishment at the searest town and beran 2 life of ple2rate of the goosser sort. Ifis brother gave him no aivice, for he knem it was uselesz Joseph spent his money with great prodigality, and before he knew it he was a begiar. In the meantime, John's $\$ 25,000 \mathrm{had}$
dookled itrelf. Oac day Joseph came to hum with 2 fol conkled itrelt. Onc day Joseph ca
confestion of his pecaniary troables.
"Jack," he said, "I am not onily 2 bepgar, bat I 200 heanly an debl. İelp me ont, like 2 goot fellow. and I will settle down 2nd begin life in sober eardest. With my
capraty for business, I can soon make mosey cnorgh to zepay you. I have sown mp wild cais, 20d with a litule help it can soon recoret all that I bare squandered so fool ishly."
For an answer, John Brisben placed his name to an order for the $\$ 25,000$ he had caraed so laboriocsily.
"Will that be enough, Jodic," he ssked, "because I bave $2 s$ mach more, which you can have if it is mecercary.
"Thas will be seffaieat, old fellor," was the reply. "In two Jears I will pay it hacik.'
IIc went beck to torn, drew his money, paid his debis,
sold sose of his horset, and duch sold sose of his horset, aod duschangod several ol his servanis. Twenis themsand dollars was lef out of the loan. He in rested this in kasiness, and for 2 while sceaned to hare really reformed. Johe was excouraged to syy:

- Jodic will come ont all right If ic is smarter than I nod in five years he will be worth mere moder than I coald make an a life-tho."

In less than three years Joseph Brisben's afixirs were in the baids of his creditors, and sherifis offeers clooed or his basidess. Again he innoed to his broiber for help and sympalhy-
"I own that I managed a trific carciendy," be suid, by
way of explasation "Experience is a deas teacher, and way of explanation "Enperience is a dear teacher, nod
the lespon I have lowraed I shall pever forgeh If yos cane the lespon I have lowand I shall pever loget, If
Ooce more Joha Brisbea placod his mame io a cheque pay abie to the order of bis brother, and joecph ca
basiness again. In two years he was a benkrapt.
"I shall never succeed in business, Jack," he sald. "MeIp me out of this trouble, and I will live with you on the farm. I shall sucreed as a famer.
It took all of John Brisben's hoard to pay his brother's debts, but he made no complaint, uttered no reproach. He said:
"I am glad you are coming back to the farm, Jodie. Sou aeed do oo work, and we shall be very happy togelher. bering his brother's words, devofed his time principally to huntiog, fishing, and ading about the country.
In the meantume, Jubn Brasben had fallen in love, and the daughter of a neighbouring farmer, Compton by name, was his promised wife. Being a man of strict honour nimself, and haviog iuni curadence sa hus buader, be did aut ulject
when Joseph began to pay his affianced very marked attention.

I arn giad he likes het," he thought. "I am 30 busy
the farm that I have little time for pleasure, and Alice is on the farm that I have
so fond of amusement."

One aight Joseph came to him as the shadows of the evening were beginning to fall. There was a triumphant ring in his voice 25 he spoke.
"JJuck, old boy." he said, helding out his hand, "congra tulate me. I think that frum to-day I can date the begin ning of a new life. Alice Compton has promised to be my wife."
He was too much engrossed with his new happiness to see the effect of this announcerneet as portraged on Joho's face. He did not notice how the strong man's hand trembled in his own.
"Is this true?" faltered John at last.
"Why, of course it is. Are you not glad? We love each other, and shall be very happy.
Whe love each other and shall be very happy." repeated John mechanically, and all the sunshine of his life sunk be hind the heavy clouds of despair. "Yes, Jodic, I am glad,
and I wish you long yeais of happiness." and I wish you long yeais of happiness.
He turned away, and staggered, rather than walked to his own room. He did not stir all night. Once 2 deep, sob bing groen struggled to his lips, and the mounbeams strug gling through the window, fell full upon his face, and sur prised two great tears stealing down his pale cheeks. He oresed away the evideace ol weakaes an into his Then the morrow came, no one looking into his calm, serene eses would hare gaessed how lard was the
They were married, and the man rejected by the bride and supplanted by the groom was the first to congratulate the newly manried pair. A racant house on the farm res fitted op for their reception and John Brisbea's money paid for the foraishing.
 langer share." 1 don't need much, and you shall have the Ten years passed awiy, and John Brisben, an old man before his t:me, still worked from damn tiil dark that his brother might play the gentleman and keep in comfort the bad been necessary to mortgage the old homestead to raise money to pay Joseph's garnbling debts, for of late years he had played hearily, and had invariabis lost.
One day-it mas in the summer of 1871 -2 forged check was presented at one of the banks of the shire town, by Joseph Brisben, and the money for which it called was un esitatingly pand over to him. He was under the infaence of liquor at the time, and deeply interested in a game of cards for high stakes, which was in progress. The chock was for $\$ 2,5<0$ I thiak. Before daylight the oext moroing Joseph Brisbea had lust everg dollar of it. To drown his chagria he became beastly drunk, and while in this condition an offiecr-arrived and apprebeaded him for forgery and ultering a lorged check. The prisoner was confned to grol, and word of his disgrace was sent to John Brisben. The lalter read the messape 20d a mist came oree his eyes. He groaned andibly, and but for a strong efiort of the will wouid
have fallen to the foor, so weakened was be by the shock. "She mest not know it," he said to himself, and he made instant preparations to risit his brother. When he reached the gaol he was zdmitted to the cell of the wreiched criminal The brothers remained together sereral hours. What passed during the interview will never be knomp. When John Brisben emerged from the gaol he Fent straight to the magis srate who tad issued the warrant for the apprebeosiou of joseph Brisber.
"Squire," he said in his slow, hesitating way. "I'ou bare made 2 mistake.
"In what way, Nir. Buisben I" asked the magistratis who had 2 high scrard for his visitor.
" Yoo hare caused the arrest of an innocent man."
" Bat-" begad the magisitate.
"Issue 20 order for my brother's instant relesse. IIe is insocent of the inteat to do wrodg. I $2 m$ che cuilly man I forged the name of Charles Ellison to the check "rhich be attered. He did not kDow that it was a forgery:"

## "Yor !" cricd the astoanded magistrate

## impossible."

"No:hing is inapossible in these days," said the white haired old man, sternly. "I sloae 200 guilty. My brothes sinnocent.
So stoctly did be arce that be was the forger, that the magistrate relociantly issued a warrant for his arrest, aod at he same lime wrois an order to the gaoler for the release of Joseph Brisben.
the id constabie gill be in soon," said the magistrate , bot the old hero piciked op both the papers.
" will not tronble him," be said: "I will execric both papers.
And ie did. IIandivg the groler both papers be cxplained beir meaning thas
Whey hare made a mistake. It is I rho am to be jour prisomer. My brother is inooceat.
Acondingly Jaseph Brisbea mas reicased and reluroed to the farm. Jokn remendod at grol a prisores. When the crush ofered to go on the rocured zen's boant, bat be porld
not accept their kind offices. At the trial he pleaded guilly, and was sentenced to fifteen years' imprisonment at hard Iabour in the penitentiary. Joseph came to see him belore he was rem
private one.
Joseph Brisber remained at the farm, but he was a changed man. From the day of his release from gaol down to the tume of his deaih, be was never known to touch a card, and a drup of liquor never passed his lips. Last April he died, and his contession, duly sworn to before a Justice stance Peace, was made public alter his bunalorgery, for which his heroic that he was gailiy un the orger, "It was my brother's wish, not mine," reads the document. IIe insisted thas be, othu had stu ties of lluud ut masriage, could better suffer the punishment and disgrace than I who had dependent upon me a large family.
Nuble Juho Brishen: Of such stuff are heroes made.

## NATURE'S LADY.

Three years she grew in sun and shower
Then nature said, "A lovelier flowe
On earth was never sown;
She shall be mine, and I will make A lady of my own.

* Myself will to my darling be Bothlaw and impulse; and with me The Girl, in rock and plain, In earth and heaven, in glade and bower, hall feel an overseeing power
To kindle or restrain.
She shall be sportive as the farn
That wild with glee across the lawn
Or up the mountain springs;
And hers shall be the breathing balm
Of mute insensate things.
"The flozting clouds their state shall lend
To her ; for her the willows bead;
Nor shall she fiail to see
Even in t'se motions of the storis
Grace that stall mould the maiden's form
By suleat sympathys
"The stars of midnight shall be dear
To her; and she shall lean her car
In many a secret place
Where rivalets dance their wayward sound,
And beauty born of murmuring sound
Shall pass into her face."


## THE DIAMOND.

A wnter in the London "Chemical Niews" thinks he has solved the question of the origin and formation of the dia-nond-it being due, he argres, to the fact that the carbonhas been dicsolved by hichly heated water, aided by greet pressure existing in the crust of the earth. The fact is well known that highly heated gater, aided by preterure, an dissolve silica, zs in the geysers of Iceland, etc., where it is formed around the month of the vent; and there are also the experimental researches of De Senarmont 20d others, on the srificiai grodaction of crystalized micerals as quarts, mispickel, cornndum, hearyspar, elc., by the prolonged action of water at high semperatures and pressures. On these grounds, therefore, it is urged that no reason exists why bighlg heated water, of water gax, should not have the porrer of disolving the carbonaceous maller of fossiliferoes placis the crystallized condition, forming the gem known as the diamond.

## FACN, THE CHICAGO FIRE DOG

Jack goes to all the fires, and is first to hear the buzz of the telegraph. If afrod the thard fivor whed the call comes,
he is the firs: member of the company domn. He Derer he is the firs: member of the comp2ny domn. He Dever to ron down the fire fireht of stairs like an modisary Cliristian: but in his anxicity to cet to the horses, he invant. ably solls doun the secomd flight. He drives the horses to the pole, 20d reas abead of them barking. J ack is known to thousadds of persons, and his barking iaforms them that there is a fire in the district. Ine clears the street for the cocride betlet than 2 man coald. IIe is always first ia the beilding. Ai night, he Jooks for a fireman's light; and onen when the smoke is thick and he caneot be seen, the men know he is aboat by hearing him soecze. If there is a fire sod the apparatus does nel go out, Jack sits down and bowls in his disappointment, and cries 25 if his hesert was broken. Somelimes the houses step on him, but be keeps on three legs and sees the firc ont, bat, ofien, when he gets beme, be is laid up for days. Ife has been kDokn $t 0 \mathrm{go}$ ap and down 20 iron fic-cseape, and wailk up 2 ad down 2 peaked
roof that was $2 t 2 \pi$ angle of forty-fire derrec roof uhat was $212 \pi$ apgle of forty-fire denrees He will no 2ngwhere the med da At home he is fastidious, dissinian
the smell of the smoke when the stove is lighted. When the sment is beine scrubbed, Jack coes acenos the strect, where the too: is being scrabbed, jack goes acioss the sirect, where
be sels ap a bowling antil the ciceasing operation is orer. be sets ap at fires, he does not mind the densest sinole or the Bet, at fites, he does not midd tbe
heariest shower-baths -Intmaice.
A. Versont villager has his walle and froat fand pared

Tuz rocovery of an old parchmeat meanecript of Deacronomy dated 800 B.C. from a Bedocia tribe, by the teronomy datca 800 B.C. Irom a ${ }^{2}$ Bedocia unbe, by the
Palestine Exphration Fado, will be very gratifyigg to all

## HOME CIRCLE.

## SACRED MONKEYS.

Victor Jacquemont estumates that the Bengal Presidency alone contains 1,000 monkoy asylums, supported chiefly by the very poorest class of the population. In the rural districts of Nepaul the hanumans have ther sacred groves, and leep together in troops of fifty or saxty adults, and, in spite of hard times, theso associations multiply like the monastic order of medieval Europe; but thoy must all bo provided for, though the natives should have to eke out the crops with. the wild rice of the Jumua smamp jungles.
The strangest part of the superstition is that this charity results by no means from a feeling of benerolence toward nuimals in general, but from the exclusive veueration of a special sub-division of the monkey tribe. An orthodox Hindoo must not willingly take the life of the humblest fellowcrcature, but he would not move a finger to save a starving dog, and has no hesitation in stimulating a beast of burden with a dagger-like goad and other contrivances that rould evoke the arenging powers of the Society for the Prevention of Cruelty to Animals. Nor would he shrink from extreme measures in defending his fields from the ravages of low-caste monkeys. Dr. Allen Nackenzie once saw a swarm of excited natives running toward an orchard where the shaking of branches betrayed the presence of arboreal marauders. Some of them carricd slings, others clubs aud canespears. But soon they came back crest-fallen. "What's the matter ?" inquired the doctor ; " did they get atray from you?" "Kappa-Muni," was tho laconic reply, "sacred monkeys." Holy baboons that must not be interrapted in their littlo pastimes. They had expected•to find a troop of commou makaques, wanderoos, or other profane four-handers, and returned on thp-toe, like Marryat's sergeant who went to arrest an obstreperous drunkard and recognized his commanding officer. Unarmed Europeans cannot afford to brave these prejudices. Captain Elphinstone's gardener nearly lost his life for shcoting a thievish hanuman. A mob of raging bigots chased him from street to street till he gave them the slip in a Mohammedan subarb, where a gympathizing Cnitarian hejped him to escapo through the back alleys. The interference of his countrymen wonla hardy hare sared him, for the crowd increased from minuto to minale, and even romen joined in the chase, and threatened to cure his impiety with a turnip-masher.

## Chantiy health nuthons.

The rag health journals aud sauitary pallicists taboo agreeable luxuries that have been found in. nocuons, if not beneficial, for many generations, is " adding new terror to life, if it takes none from death." It is certailly a noticeable featare of tho doctrinaires of tho lygicsic schuol-the Halls and Dio Lewises and their bind-that they condemn modes of life, hinds of fuva, fashions of clothing, habits of resting or circising that hare preraied for sears mith no risible harm. Day after day they tako away bumething that sumo of us havo becn in the halit of eating or duiug, or put in something to haro nut been in the habit of duing or eating, till ne fecl lito Sancluy Panzs at his banquet at Baraiaria. "Fruit is too moist," said tiic doctor of tho table, tho Dio Iroris of Barataria, "the ronst meat increases thirat, partridges are daugetuas, stewal conega aro a shary-hnircd food, cilapodrida is too coarso; therefore cat ono hundred rolled up wafers and some thin slices of marmalode." No wonder if we cry oat, rith the hongry Sancho. "To deng me any victuals, though it is against tho grain of

Signor Dootor, and though ho should any as much more ngainst it, I sny, is rather the way to shorten my life than to lengthen it." The sonsible half of the world will sary amon to the honest Manolargan. "Nover eat a hearly supper bofore going to bed," say tho Baratarians of health journals. But we know our fathers and grandfathers, on their farms, would cat a horso's meal of mush and milk, or johnny cake and beans and cold cabbage, bo in bed and asleop in a half hour, and up at daylight, as hearty at sixty as a Baratarian health broker or banler at forty.
Lord Cockburn tells us that ciev. Sir Harry Moncrieff had his sunper of roast chicken at eleven o'clock at night all his lifo, and died at ninoty. Ever since Conaro changed from a debauchee to an ascetic and measured out his bread and meat by the ounco and his drink by the teaspoonful, and lived to be over one hundred, there have been fools who believed that one man's meat was all men's health, and one man's doctrine was all men's duty. Dio Lewis lays dowu the law, and ten thousand men break it every day and live long and well. Others obey and die sickly. The wise law of food is that of the brusque bat sagacious Abernethy. "Is renison wholesome, doctor?" asked a nobleman with the gout. "Do you like it?" was the reply. "Yes." "Does it agree with you?" "Yes." "Then it is wholosome." There is no better health low regulating food than that. Let the Baratarians say what they will of "nourishment" and "nitrogen" and "blood-making" or "blood-thinning" qualities of food or drink, the right rule is to eat rihat you like if it agrees with yon, and let the Baratarians go hang. Why, it is but a fow weeks since some professor from Sancho Panza's island proclaimed that "walking was not a healthy exercise unless it was very brisk and rapid." The world will never be more healthy for the promulgation of such staff as that. The great want of most of the world, even of our own part of it, is to get food enough and clothes enough and time enough to sleep, not to repine upon modes and qualities to fit the theories of schools or of "authorities." "Health anthoritics" are mighty apt to be ham-bugs.-Pall Mall Gazette.

## THE HOODED LEOPARD.

In Africa and soathern Asia tho cheetah or hanting leopard is amportant to the sportsman. The anmals resemble the common leopard in their markings, but are more slender, having long legs and certain external canine characteristics that are very noticeable, so that it mas long thought a connecting link betreen the dogs and csts. in Persia it is called the youre, and they are carried to the field in low cars, whereon they are chamed. Each leopard is hooded. When the hanters come within niew of a herd of antelopes, the leopard is unchained, his hood is remored, and tue game is puinted out to hum, being durected in the parsuit by his sight. Then he steals along cantionaly and crouchangly, taking advantago of every means of masheng his attack, till he has approached the herd unseen hithm kulhog distauce, when he saddeuly aunches himself apon his quarry Fith fire or san vigorous and rapid boands, strangies it unstantancously, and dracks its blood. The hontsman now approaches the lcopard, carosses him, fins him from his pros by placing the blond rlich ho collects in a rooden Indle under the noso of the animal, or by throwing to him pieces of sucat, and mhile he is thus hept yuet, hoods him, leads hum back to his car and, there chans hin. If the leopard falls, in consequenco of tho licrd haring taken timely alarm, he attemptis no pursuit, but returns to his car Fith a dejcced and mortuficd air.

Tho hyona and oance hase also bean used in
hunting, whilo the wild dog of Afrios is oftou in demand. In Asia tiger-hunting wonld be practised less wore it not for the cloplants, who seom to onjoy the dangerous sport as well as thoir riders, who are safoly housed on their backs. Those intolligent animals are also used in capturing wild animals of thoir own kind, and are im. portant factors in the training and subduing process that comes later. The horse was formerly need in England to stalk animals. Thoy were trapped so that the ridor was concealed, and so feeding along the animal gradually brought the sportsman nearer the game. In the invontories of the wardrobe bolonging to Henry VIII. is the allowance of cortain quantities of staff for the purpose of making stalking coats and stalking hose for the use of lis Mrajesty.

IN A RUSSIAN CEL.L.
There is not much light in them. The windorr, which is an embrasure, is nearly of the same size as the windows in other prisons. But the cells occupy the interior enclosure of the bastion, that is, the redoubt, and the high wall of the bastion faces the windows of the cells at a distance of fifteen to twenty feet. Besides, the walls of the redoubt, which have to resist shells, are nearly fivo feet thick, and the light is intercepted by a double frame with small apertares, and by an iron grating. Dark they are even in summer. The outer wall intercepts all the light, and I remember that even during bright days mriting was very difficult. In fact, it was possible only when the sun's was reflected by the upper part of both walls. All the northern face of the redoubt is very dark in both stories. The floor of the cell is covered with a painted felt, and the malls are doubled, so to eay; that is, they are covered also with a felt, and at a distance of five inches from the wall there is an iron wire net, covered with a rough linen and with yellor painted paper. This arrangement is made to prevent the prisoners fiom speaking with one another by meang of taps on the wall. The silence in these felt-covered cells is that of a grave. I am just now in a cell. But the exterior life and the life of the prison reaches one by thousands of sounds and words exchanged here and there. Although in a cell, I still feel myself a part of tho frorld. The fortress is a grare. You never hear a sound, excepting that of a seutry continually creceping liho a hantor from one door to anuther, to look throagh the 'Judas into the cells. You aro never alone, as an oje is continually kept upon you, and still you are almays alone. If jou address a word to the warden who brings you your dress for falking in the jard. If you ask him what is the weather, he nover answers. The absolute silence is interrupted only by the bells of the clock, which play every quarter of an hour. The cacopiony of the discordant bells is horriblo daring rapid changes of temperature, and I do not fonder that nerrous persons considar these bells as one of the plagues of the fortress. The cells aro heated by merns of large stores from the corridor outside, and tho tomperature in the cells is kept cacecdingly high, in order to prorent moistare from appearing on tho ralls. To keep such a tomperature, the stoves are shat ap very soon pith barning coals, so that tho prisoner is usually asplysiated with usido of carbon.

## LITTLE DUTIES.

3lany hare a sort of contcmpt of hittle duties. They do not perform them becanso thoy are maigmificant. But if thoy reflected apon thoir place in the work of life. they woald seo that thoy are not unimportent. When wo seo the relation of one eront to another in history, Wo 800 that the

History is just what it is becauso the little ovent and tho little duty had thoir placo in the sequenco of ovents and duties in tho past. The omisgion of ono little event in tho past would have ollanged the whole after history.

Besides, when littlo dutios are negleoted great dutios aro apt to bo neglected. The man who does not pray in secret has no interest in pablio prayer. If the Bible is neglected at home, its counsels are not sought elsowhere. These are every-day dutios, nnd they aro the links in the ohain that connect smaller blessinge with those that are larger, little events with great evonts.

The value of little dutics is seen when wo know the results which have followed their performance. A little girl on her way to read the Dible, led an earnest Cbristian to think of sending Bibles to Wales, to England, to the world, and from that littlo ovent sprung the groat British and Foreign Biblo Society.

Peabody talked with Hopkins about the joy he had in gathering, and the greator delight he had in using his money for benovolent purposes, and the next day Jouns-Hopkins set to work to devise means for the employment of the seven millions of which he was the possessor in benovolent and educalional schemes. From that conversation started the hospital and university in Baltimore which bear the name of Johne-Hopkins.

An infidel gave a fert dollars toward the repairs of a church. He was attracted to the church to see the repairs, was induced to continue his visits, and after a time became a very uceful member of the church.

A man desired to be useful, and condensed a work that had been productive of good by a popnlar author, and millions of that little work have been published and sold in several different languages.

A sermon on Foreign Nissions, by Rov. Dr. Mason, turned Rer. Dr, Spring from the lary to the ministry, and the singing of a hymn by a fellow-student brought Dr. John Breckiaridge to Christ.
God can make the little act or the little duty productive of good, and for that reason we should not think them insignificant.

## the ingenuity of deception.

- Wuoden nutmegs are things of thu past, young man," sand a grucer. "They haso been saparseded."
"What has taken their place?"
"Just atep around the counter here and I'll show sou. Du you see that bos of spices? They look very nice, don't they? Now taste 'em, they tasto good, too, as spices go. Well, soung man, what do you think of "em?:
"From all appearances I should say that they were a fur lot of spices."
"That is just nhere soix jalgment falls short. They are not spices at all."
"What are they then?"
"Jast gruand cucuanat shells, flarcured with spice extracts. The difference in colour comes from barming the shells. Why do I keep im? Because people nalt em. Of coarse, they are a frand frum beginning to cnd. Bat they are cheap, and peoplo rast chcap spices, just as they Fant everything clso cheap. Large quantities aro manufactured and shipped all over the country. They are sold as gennino spices, but any grocer with a particle of sense knows from the prices that they carnot be the real article. You see, they look, taste, and smell fully as well as the Simon Pare, but put them in food and you will soon sea the differenco. They do not flarour. A drop of clove extract will emell stronger than twenty pounds of cloves, but I think the twenty pounds would flarour more hot rum, don't you ?"
" You have no idea of the ingenuity that is used in getting up these and othor imitations. The best chemionl knowledge is omployed. What lo you think of stamping out wholo peppors and cloves? It is dono, though. Young man, thio general grocery trade is oxtonding. With glucose for sugar, oleomargarino for butter, oheose innocent of milk, and coconnut shell spices, it is becoming a big business."-Nect York Sun.


## VIEWS AFIELD.

A jolly farmer $I$,
For, when I look around,
Fine views I seo, that finer be The more thoy're ground.

I care not for the world, Whato'or may como to pass;
I'd smile if all this carthly ball Shonld go to grass.
Tot many thinge there be Of which I may complain ;
When tempests blow, they'ro apt to go Against my grain.
And when my hired man-
A caroless, reckless pup,
Nowed into mo below the knee, I folt cut up.
Yet, now tho wound is well, A happy man am I;
It makes me gay to sce each day Tho sun get high.
And when the fields of corn
Show many a waving row,
And tickled earth seems, in her mirth, To laugh-"Hoo! hoo!"

And neighbours hail me oft, At work at early morn,
And jokes let fly-I nanght roply ; I own the corn.

Kind pords I speak at morn
And when my work is through;
At morn, "Good day !" at night I say "A dew! a dow!"
I'm not aboro my work,
For, when I look around,
I clearly seo none lodg can bo Above the ground.

## A LUDICROUS BLUNDER.

Readers of nemspapers are sometimes amused at a ladicrous blonder which the proof reader has failed to correct. But fer, howcyer, have ever laughed as heartily orer an accilental muddling as did tho Parisians one morning during the roign of Louis Phillippe. The morning after the day on which a ministerial crisis had occurred, and M. Thiers had been sent for, there appeared in the Constitutionnel the following startling paragraph
"His Majesty, the King, received Mi. Thiers yesterday, at the Tuileries, and charged him with the formation of a now Cabinet. Tho dis. tinguished statrsman hastened to reply to the king, 'I have only nue regret, which is, that $Y$ cannot mring sour neck like a turkey's.' "

A fers lines !ower fown thecre was another paragraph to the fellering cffict
"The cfferts of justice are rromitly cromned with success. The mardercr of the Rae du Potdefer has been arrested. 'La3 at cace bcfore the Judge of Instraction, the rreitl had the Lardi hood to address that magistratc $\because$ terms of coarse insult, winding up with the follorring Fords:-
"God nnd man aro my mitnesses that I havo ncrer had any other ambition than to serve sour augus: person and my country losally to the best of my ability."

The printer lad interchanged tho addresses. Bat the joke mos that all Paris know that there was littlo love lost between tho king and Thiers. -Youth's Companion.

## THE VICEROY AND THE B.ABY.

A oharaoteristic anecdote is rolated of the lato Lord Lawrence, whon, as the now viceroy, he was returning to the country in which his best years had been passed. Ho was in bad spirits, partly from soa-sickness, and partly from lack of friends and congenial natares around him, partly from the feeling of the heavy responsibilities which ho had assumed in comparativoly weak health. A lady was returning to Indir with her infant child, whioh she atterly neglected, and the baby took its revenge upon the passengers generally by squalling day and night alike. They complained in no measured languago to the authoritice. "Stewward, throw that baby overboard:" was a cry which came from many a sleepless berth. Bat the [nuisance continued unabated. At last the new viceroy, perhaps because he saw in the child, half-unconsciously, a slight resemblance to his lost Bertic, gave it a large share of his attention, and would take it for hours together on his knee, showing it his watsh and anything that would amuse it. The child took to him, as he to it, and to the great relief of the passengers, was always quiet in his presence. "Why do you take so much notice of that child? "asked ono of them. "Why, to tell the truth," said the viceroy, "that child is the only being in the ship who I can feel sure does not want anything of me, and so I take pleasure in its society." How much of the kindliness and simplicity of a great nature is revealed by this simple story.

## DUTIES OF DAILY LIFE.

Life is not entirely made up of great evils or heavy trials; but the perpetnal recurrence of petty evils and small trials is the ordinary and appointed exerciso of the Christian graces. To bear with the failings of those about us-with their infirmities, their bad judgment, their ill breeding, their perverse tempers - to endure neglect when we feel we deservo attention, and ingraitude where we expected thanks; to bear with the company of disagreeable people whom Providonce has placed in our way, and whom He has provided on purpose for the trial of our virtue, these are the best exercises of patience and selfdenial, and the better because not chosen by ourselves. To bear with veration in business, with disappointment in our expectations, with interruptions of uur retiremont, with fully, intrusion, distarbance-in short, with whate rer cppuses our will or contradicts our humour-this habitual acquiescence sppears to be more of the essence of solf-denial than any little rigours or aflictions of our own aposing. These constant, inevitable, but infern. evils properly improved, furnish \& good moras discipline, and might, in the days of ignorance, hare superseded pilgrimage and pen-ance- Hannah Mnre.

## QUAKER IVEDDINGS.

The nedding ceremung of the Society of Friends is unque and beautifal. Tho lrido and groom, with their attendants, march into tho charch at the: regalar mech-day mecting at eleven o clock, and, sfter beivg suated with faces fronting the andience, they arise, and the groom, taking the bndo by the hand, sass. ." Friends, in the presence of the Lurd and thes assembiy I tako thee, Mary Jones, to ho my fufe, promising, with divine assistance, to be anto thee a loring hasband antil death shall separate as." The bride repeats the samo promise, and they are scated. The clerk of the weeting then arises and reads the marriane certif.cinte, and invites the congregation to rrite their names as witnesses. This ended, after a fow moments of silent rorehip or a rocal prajer, tho married couplo and their attendants retiro to the home of the bride, where there is usually a sumptuons feast, followed tho nezt day hy fhat as termed an "infuir at tho heme of tho groom.-Chicago Inter-Ocemn.

#  

## Csong And oheiruss.

Written by J. HAYNES.
Composed by ALFRED LEE.


(2x Mn \%


## YOUNG CANADA.

## TRUTH

"Lost your situation? How did it happen, my boy?"
"Well, mother, you'll say it was all my own carelessuess, I suppose. I was dusting the shelves in the store, and, trying to hurry up matters, sent a lot of fruit-jars smashing to the floor. Mr. Barton scolded, and snid he wouldn't stand my blundering ways any longer, so I packed up and left."
His mother looked troubled.
"Don't mind, mother, I can get another situation soon, I know. But what shall I say if thoy ask me why I left tho last one?"
"Tell the truth, James, of course; you wouldn't think of anything else?"
" No, I only thought I'd keep it to myself. I'm afraid it may stand in my way."
"It never stands in one's way to do right, James, even thuugh it may seem to sometimes."
He found it harder than he had expected to get a new situation. He walked and inquired till he felt almost discouraged, till one day something seemed to be really waiting for him. A young-looking man in a clean, bright store, newly started, was in want of an assistant. Things looked very attractive, so nent and dainty that James, fearing that a boy who had a record for carelessness might not be wanted there, felt sorely tempted to conceal the truth. It was a long distance from the place from which he had been dismissed and the chances were slight of a new employer hearing the truth. But he thought better of it, and frankly told exactly the circumstances which had led to his seeking the situation.
"I must say I have a great preference for having neat-handed, careful poople about me," said the man good-humouredly, "but I have heard that those who know their faults and are honest enough to own them, are likely to mend them. Perbaps the very luck you have had may help you to learn to be more careful."
"Indeed, sir, I will try very hard," said James earnestly.
"Well, I always think a boy who tells the truth, even though it may seem to go against him-Good morning, uncle. Come in, sir."

He spoke to an elderly man who was entering the door, and James turning, found himself face to face with his late employer.
"Oh, ho!" he said, looking at the boy, "are you hiring this young chap, Fred?"
"I haven't yet, sir."
"Well, I guess you might try him. If you can only," he added, laughing, "kecp him from spilling all the wet goods and smashing all the dry ones, you'll find him reliable in everything clsc. If you find you don't like him I'd be willing to give him another trial myself."
"If you think that well of him," said the younger man, "I think I shall keep him mysel."
"Oh, mother," said James, going home after having made an agreement with bis new employer, after such a recommendation from bis old one, " you were right, as you always are.

It was tolling the truth that got it for me. What if Mr. Barton had come in there just after I had been tolling something that wasn't oxactly so !"
"Truth is always best," said his mother, "' the truth, tho whole truth, and nothing but the truth.'"

## HIS NOTHER'S SONGS.

Boneath tho hot midsummor sun The mon had marched all day; And now bosido a rippling stream Upon the grass they lay.
Tiriug of games and idlo jests,
As swopt the hours along.
Thoy callod to ono who mused apart,
"I fear I cannot please," he said;
"Tho only songs I know
Aro those my mother used to sing
For molong years ago."
"Sing one of those," a rough voice aried, "Thero's none but true men hare; To overy mother's son of us A mother's songs aro dear."
Then sheutly rose the singer's yoico Amid unvontod calm,
"Am I a soldier of tho cross, $A$ follorer of the Lamb?
"And shall I fear to own His canso"The very stream was stillod, And hoarts that never throbbed with fear With tender thoughts mere filled.
Ended the song ; the singor said, As to his foot ho rose,
"Thanks to you all, my friends; good night God grant us sweot reposo."
"Sing us ono more," tho captain begged; The soldier bent his head. Then glancing round, with smiling lips, You'll join with me,' he sald
" We'll sing this old familiar air,
Swreet as the bugle call,
All hail tho poror of Jesus' namo, Ired angels prostrato fall.'"

Ah! mondrons tras the old tune's spell As on the singer sang;
Mran after man lell into lino,
sud loud the voices rang,
The songs are done, the oamp is still,
Naught but tho stroam is heard;
By those old hymns aro stirred.
And up from many a bearded lip,
In whispers solt and low,
Risos the prayerithe mother taughs The boy long yerrs ago.

## "GOOD ENOUGH FOR HOME."

"Lydia, why do you put on that forlorn old dress?" asked Emily Manners of her cousin, after she had spent the night at Lydia's house.
The dress in question was a spotted, faded, old summer silk, which only looked the more forlorn for its once fashionable trimmings, now crumpled and frayed.
"Ol, anything is good enough for home!" said Lydia, hastily pinning on a soiled collar; and twisting up her hair in a ragged knot, she went down to breakfast.
" Yuur hair is coming down," said Emily.
"Oh, never mind; its good enough for home," said Lydia, carelessly. Lydia had been visiting at Emily's home, and had always appeared in the prettiest of morningdresses, and with neat hair and dainty collar and cuffs, but now that she was back home again, she seemed to think that anything Fould answer, and went about untidy and in soiled fincry. At her uncle's sho had been pleasant and polite, and had won golden opinions from all; but with her own family her
manners were as careless as her dress. She seemed to think that courtesy and kindness were too expensive for homo-wear, and that anything would do for home.
There are too many people who, lihe Lydia, seem to think that anything will do for home; whereas, offort to keop ono's self neat, and to treat father, mother, sister, brother, and servant kindly and courteously is as much a duty as to keep from falsehood and stealing.

## KEEP THE LJFE PURE.

Onco upon a time an Arabian princess was presented by her teacher with an ivory casket, exquisitely wrought, with the injunction not to open it until a year had rolled around. Many were the speculations as to what it contained, and the time impatiently waited for when the jewelled key should disclose the mysterious contents. It came at last, and the maiden went away aluno, and with trembling haste unlocked the treasure; and lo! reposing on delicate satin linings, lay nothing but a shroud of rust; the form of something beautiful could be discerned, but the beauty had gone forever. Tearful with disappointment, she did not at first see a slip of parchment containing these words:
"Dear Pupil,-May you learn from this a lesson for your life. This trinket, when enclosed, had upon it only a single spot of rust; by neglect it has become the useless thing you now behold, only a blot on its pure surroundings. So a little stain on your character, will by inattention and neglect, mar a bright and useful life, and in time will leave only the dark record of what might bave been. If you now place within a jewel of gold, and after many years seek the result, you will find it still as sparkling as ever. So with yourself; treasure up as only the pure, the good, and you will ever be an ornament to society and a source of true pleasure to yourself and your friends."

## MOTHER'S TURN.

It is mother's turn to be taken care of now." The speaker was a winsome young girl, whose bright eyes, fresh colour, and eager looks told of light-hearted happiness. Just out of school, she had the air of culture which is an added attraction to a blithe young face. It was mother's turn now. Did she know how my heart went out to her for her unselfish words?
Too many mothers, in their love of their daughters, entirely overlook the idea that they themselves need recreation. They do without all the casy, pretty, and charming things, and say nothing about it, and the daughters do not think there is any selfdenial involved. Jennie gets the new dress, and mother wears the old one turned upside down and wrong side out. Lucy goes on the mountain trip, and mother stays at home and keeps house. Emily is tired of study, and must lio down in the afternoon; but mother, though her back aches, has no time for such indulgence.
Girls, take good care of your mothers. Coas them to let you relieve them of some of the harder duties which, for years, they have patiently borne.

## Loss and Gain,

## claptisk 1 .

"I was taken sick a year ago
"My doctor pronounced me cures, bul I got sick aqain, with terrible pains in my back and sdes, and I got so bati I
Could not move!
I shrunk
From 228 lbs. to 1201 I had been docFriog for my liver, but it did me no good. I did not expect to live more than three
months. I began to use Hop Bitters. Di. rectly my appetite returned, way pains left me, my entire system seemed renewed as if by magic, and after using several botties I weigh more than I did before. To Hop Bitters I owe my life.
Dablin, June 6 , '8i. R. Fitzpatrick.

Neuralgia, female trouble, for years on the most terrible and excruciating manty
No medicine or doctor could Nelief or curce until $I$ ased Hop Biat gre me
"The frrst bottle;"
Nearly cured me
The second made; me es well and strous as when a child,
"And I have been so to this day."
My husband was an invalid for twenty years with a scrious
"Kidney, liver and urinary complaint.
"Pronounced by Boston's best physicians"Incurable!"
Seven botlees of your bitters curod him and 1 know of the
"Lives of eight persous"
In my neighbourhood that have been saved by your bitters.
And many more are using them with great beneft.
"They almost,
-Mrs. E. D. Stack.
How to Get Sick-Expose yourselfday and night; eat too much without exercise; work to hard withoat rest; doctor all the time; take all the vile nostrams advertised, and then yoa will want to know how to git Tuell, which is ans
Take Hop Bitters!
$\begin{array}{r}\text { ROUOH on rats." } \\ \hline \text { Clears out rats, mice, roaches, fies caty }\end{array}$ Clears out rats,
bed.bugs, skuaks, chipmunks, kopteris. $/ 562$.
Druggists.
W. A. Encars, of Frankville, yos cured of Liver and Xidney Complaiji after life
was despaired on He had temained from ten to nitieen days whiok an action of the bowels-Burdock Bloon Bitters cured him, and he writes that hie is a beyter man than he has been for frenty years pase

LOOK OUT FOR PRAMDS $/ / /$ The genuine " Rough on Corns " is gulae



Nothing knoten to medical science can surpass the healing properties of Dr. Fomler's Extract of Wild Strawberesin Cholera Morbus, Dysentery, Calic and al Bowel Complaints.

## deceline cr man. //

Nervous Weakness, Dyspepsiar furgorace, Sexual Debility, cured by "Well's Lualth

If you froull escape the rayges of that scourge of the sumpar season Cholera Morbus, keep Dr. Fowlery Extract of Wild Stramberry at hand lor use. Mo that and all lible.

Catarrh of the bladder// Stinging irritation inflammation finl
Kidncy and Urinary Complaints, cyeg "Bidncy and Urinary
FOR A $\alpha$ one of soda ; flour enourh for 2 stiff batter; sleam until done; cuy intorlices and lay in


Infalisite, tastelese, harmiless, athyrigh for feferishness,
ctipation. 25 C
ATDressert clonks, conts, stocijigs and al garments cal bo caloured foccessfally - \#ly"

## fortds of the wide.

The lowest ebb is the turn of the tide.Lonsfeclow.

Tus highest form of Christian life is selfdenial for the good of others.-Dr. E. A. Park.
Benr up, bear on ; the end
thall tell
ings wel The dear Lord ordereth all ings wellt
Ip we cannot live so as to oe happy let
us at least live so as to dese ve happiness. us at leas.
Love's sweetest meanine are unspoken; the full
Borce.

IT is necesar to $t$
IT is necessary to try to urpass one's self always; this occupation should last as loog as ifie.- Querm Chistianta.
Things that oever happen are often $2 s$ much realities to us in their effects
that are accomplished. $-D_{\text {tckerns. }}$
The years write their records on human hearts, as they do on trees, in hidden, inner
es of growth which no eye can sec.-
Kolm.
The anger of an enemp zepresents our faults or admonishes us of our duty with more heartiness than the kindness of 2 friend.Faremy Tayior.
Man are guided less by conscience than by glory, and get the shortest way to glory is
Home.
Lex $a$ man learn that everything in nature, even motes and feathers, goes by law and not by luck, and that what he sows he reaps.
Frivolity, under whatever form it ap. Frivolity, under whatever form it ap-
pears, takes from attention its strength, from pears, takes from attention its strength, from
thought its originality, from fecling its earnthought its originality, from
estuess.-Nfadame de Stael.

Ah, how rate it is to find a soul still enor gh to hear God speak 1 The slightest murmur of our vain desires or of a love fixed upon self confounds all words of the spirit of God. -Ferelon.
Thin pealed the bells more loud and deep, "God is not dead; nor doth He sleep 1 The Wrong shall fail, the Right previail, Wh peace on earth, good-wint men - Longt cllow.
-Life is made up, not of great sacrifices or daties, but of little things, in which smiles and xindnesses and sunall obligations, given
habitually, are what win and preserve the heart, and secure comfort-Sir 11 . Davy.
True friendship, grounded on the coveanat of the Lord, possesses inconceivable force. It is stronger thar death, and able selflove and erec relative affection- 7 Scotl.
Mes seldom die cf hard work; activity is God's medicine. The kighest genius is willingness and ability to do bard work. Any other conception of a genius makes it a doubr.
ful, if not a davgerous, possession. $-R . S$. fuck if not 2
Uscrion is the tongue of fire, and is just the very gift which no uaiversities, no dc. grees, no amonat of learaing or critical attainment, no cultivation of the science of belles-lettres or rhetoric or elocution can bestow.-E. Paxton Hood.
Herbin lies a great truth. Weare builders of our own characters. We have diferent positions, spheres, capacities, privileges, different work to do in the world, different temporal fabrics to raise ; bat ree are all alike
in this-all are aschitects of fate. $-\boldsymbol{7}$. F. W. Ware.
We sorely complain of the shortness of time, and yet have much more than we know in doing nothing at aft or in doing nothing in doing nothing at all, or in doing nothing
to the purpose, or in doing nothir that we to the purpose, or in doing nothir that we
ought to do. We are alwass complaining that our days are ferr, and acting as though there would be no end of them.-Serreca.
The real evils of the papal system I suppose to te its settiog the letter above and astexd of the spirit; authority above and above and instead of evangelic faith. Litlle is to be socomplished, in my opinion, by hacking at the boughs and foliage of the Upas tree nourished by those roots-Bishos Whittixg iamm.
Tiri time may be delaged, the manoer may be rnexpected, but sooner or later, in some form or other, the answer iz sare to come. Not 2 tear of sycred sorrow, zot 2
breath of holy desire, peured out in prager to God, will crer be lost; but in God's own tizae sod way it will be wailed back aryin in
Oonds of mercy, and fail in showers of blessings on you and th.
Prof. W. Ty

A NOTED HUT UNTITLED WOMAN.


Scesra, Bultora:-



 Verdetablo sarap!
 am satisted of gotruth of this.

 Ono Exys: "It work" "the a charm and naves mach
pala. It will oure enturel tho wort form of felling of tho uterus, Leucorrhconb lrwecular and palnful Yebstruation, oll Orarian Troafita, Incammation and Olearation, Froodingz, all Disphacements and tho con. tho Chengo or Yufo." tho Changso of Luse.'
now Hfo and ricor. It mon of tho aystem, and fires doctroys ald craving for stlmulante, and selleres wrak. nose ithotiomach. It curvs Bloailing, Hoalsches, Serrous Proetration, Gooeral Deblity, Woophlessaess, Deprexdunand Indigretion. That fociling of boarings cown, causing paln, wolght and backache, la always
permancatly cured by tto une. It will at all ilmen, and undar all circumstancer, act in harmons with tho hav that suraris tho 0 omalo rytume
It carts ondy 91 per bottle or adx for ss, and is sold by arugentata, Any adrico royulred an to apochal casoce, and ho names of masay who bavo been restorod to perfoct obtalned by uddreesing 3ira P., with sistip for roply. at her homo in $工$ ynn, Yesse
For Kidney Comptalnt of ether sar this compoundis ansurpessod as abundant terthoninala ahow. "IVs. Minkham's Liver IHlls," sass one writer. "am he bes: in the world for tho cure of Consupation, Purifior rorks rondem in the spectal lloo and wide falt to opuas the Cornporinc in ite popilatity. All mast respect ner as an angul 08 Y Yescy whoso 2010



Frozen ocanges for dessert on armatgust day are delicious. Remove the peel and add threc-quatters of a pound of sessar and one-half piat-ot water, and frceze.

 peptic Cure. Sbe has taken two boctles of and and
now finds berself ia better bealth thas she tas been for yearx"


## §ritutitic aud $\mathfrak{x l t f u l}$

How to Preserva pamsons.-Weigh a quantity of damson plums after each one has been pricked with a large needle, and well-washed, and take threc-quarters of a
pound of sugar to each pound of fruit. pound of sugar to each pound of fruit. Stew thether for haff an hour, skimming them horoughly.
 stroying worms.
EgGs on TOAST.-Poached egres are very good served on rounds of toast, which should fully, buttered and laid in a heated dish with 2 spoonful of boiling water poured on each slice. When the eggs are poached lay each one on its own round of toast, pepper and salt it and serve immediately.
Carambl Cake.-Make and bake a cake as for jelly cake. For the caramel, takr ine cupful of sweet vanilla chocolate, one cupfu! one beaten egg, and one terspoonful of but, one beaten egg, and one texppoonful of butfrom boil all logether uadit it crackles or flies from the spoon in hairs. Do not let it boil
too long. Spread between your layers of 100 lon
cake.
Turere is no one thing that adds so much to the furnishing of a room as curtains. With 2 good carpet, nice walls, and tasty curtains, though you may have litte furniture in your room, it will look quite elegant. There is no greater mistake made by people furnishing than putting all their money into a parlour set, and leaving only enough to buy dark shades for their windows.
Why go limping and whiuing about corns, when a 25 cent botlle
Corn Cure will remove them?
Grien Corn Sour.-Cut the kernels rom a dozen large ears of green corn, and just cover them in a stewpan with boiling water. Boil half an hour, add a quart of milk, pepper and salt to taste, and a spoonof resh butter. Beat tbree eqgs very Whe the soup just comes to the boiling When the soup just comes to the boiling point

Cold Fish Cutlets.-Melt an ounce of butter, add an ounce of ghour and $x$ gill of milk ; let it boil and thicken. Then stir in the flavouring, lemon juice or vinegar, salt, cayenne, or a little anchovy sauce or paste.
Last of all, add about a breakfast-cupful of Last of all, add about a breakfast-cupful of
cold cooked fish cut small. When this mixcold cooked fish cut small. When this mix-
ture is cold, shape it into cutlets or balls, lure is cold, shape it into cutlets or balls,
egg and bread crumb them, and fry in hot fat or oil.
Consumption is a disease contracyed by a neglected cold-how neceesary th we should at once ge: the best curn for Coughs, Colds, Laryngitis, and all thg dis-
eases of the Throat and Lungs-one
:he eases of the Throat and Lungs--one of he most popular medicines for these complaints
is Northrop and Lpman's Emulsion of Cod is Norhrop and Lpman's Emulsion of Cod
Liver-たil and Hypophosphites of Lime and iver-erl and rippophosphites of Lime ace "II gives general!salisfaction and sells splendidy gives
A Beefstenk Pie.-Get some beefsteak cut from the upper past of the round, and have the butcher mince it very fine, adding about a quarter of a pound of rat salt pork to a pound of steak. Make 2 naste only 2 litt
 the meat with pepper, salt and a little four reaged over and add a seranm quanily o valo netion Bake rathe: slowly

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 the twinges of theusiatisen, cr the mose painful atigk
of neuralgia - you can check 2 cosh, avd
cal bruised or braken skin, with a boctle
Eclectric Oil, cosking coly 25 cents


 cived by those who uso it."

Glazed Turnips.-Cat some dew tur nips into the shape of orange quarters or of small pears parboil them for fire or ten minaics in salted water. Drzin them thor oughly, then place them in 2 well -battered suncepan, spriokle them will plenty of pow. dered loal sugar, put the snucepan on the
fire, 2ad as soon as they begin to colour
 add a pinch of poxdered cinnamon and 2dd a pinch of pordered cinamonon, and
pepper and salt; let them stem geatly until
doose.

## GFFWLEES <br> $-:$ EXTRACTMWILD <br> Sivirit <br> CURES CHOLERA CHOLERA INFANTUM <br> DI，ARRHCEA． AND ALL SUMMER COMPLANTS <br> Solo ayall Dealers．

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W＂is Shief＂．＂loar Spring Fann＂＂qunder


September 28th， 1883.
PUBLIC SALE OF NINE－ TEEN CLASSES OF LIVE STOCK．
THE ON SARID EXPERIMENTAL FARM （During weck of Proviacial Exhubitoon at Guelph） WILL SELL WITHUUT RESEKY？ Thoroughbred Bullereows Traizerns ind Eale of－

 MEKINOES．
With Pure Bred Biars and Sows of－
BERKS；
ESSEX，pOLAND CHINA．
As well as Pure Bred－
Graded CuTCH COLLIE DAT CATTLE．
And several figh Graded YAT SHEEP COWS．
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Gxetph，Oxtario，Axgust rst，s853．
THE SABBATH SCHOOI

The Tescher and Senior Jchol as Ceappanica to sores berinning mith pe By yof Geresis，ca the







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$2020 c o m p l i s h e d ~ e x p g e d e r ~ o f ~ t h o ~$
 dresues which whost cordially como inese ad．

 （siscount to the trade． arso BAPTISMAY REGISTERS， COMAUXION ROLLS，Sx．




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