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## RURAL NOTES.

D. D. Hay, Esq., M.P.P., of Listowel, bas threshed 417 bushels of rheat from 11 acres of land. If that had been done in the "Grent North. West," a blare of trumpets would be annonncing it through all the nemspapers of the Dominion.
The New York Tribune states that Mr. Ira C. Jonks, of Deansvillo, in an address at a meeting of the Central New York Farmers' Clab, referred to the wheat-growing exparience of "a Canada agriculturist, whose crop one year was 546 bushels from 10 acres of land." Bravo

Axone the southem slopes of Lake Minnetonlis's banks, near Minncapolig, Minnesota, grape culture is being successifulls pursued. Concords and Delamares are the lesding varieties grown. This shows what can be done in peculiarly favourable spots pretty well north for vinesard husbandry.

Debr is the worst hindrance to good farming in this country. It is very easy to run into debt. and buying on credit soon acquires the force of a habit. It is not so easy to form the opposite habit, but it can be done, and it is eminently wise to do it. Live within your means. Lay by something, if it bo ever so little. Don't run into debt.

Tere Globe is of opinion that, orring to the serions damage done by storms to the crops of Ontario, and the abnormally large yifld of wheat throughout the world, the profits of farming in this Province will be 25 to 30 per cent. less than might have been connted on three months agc. There will, homever, be a rising wave of prosperity everywhere, that will not fail to benefit, among others, the Earmers of Canada.

Whas the honcy yield has been generally a meagre one the present year, some localitics hare produoed mell. We recently uspected the apiary of Mr. James Heddon, Doragiac, Miohigan. It consisted last spring of about 200 hives. He has repressed swarming as much as possible, yat has increased to nesrly 900 stocks. His honey crop rill be about 10,000 pounds of comb honey, and about 5,000 pounds of extracted; no mean showing for the profits of bee-keeping.

Tars Anterican Cultivator truly seys that above all things elso it is neccesary that thero be a general anderstanding that large crops are alrrays proportionately more profitable than small crops; that within certain limits a given amouni of prodacts can be grown more cheaply on fivo acres than on ten. When this fact is properly appreciatoe, the popular craze to secure more land will be abatad, and battor colture of forior acres will
take the place of the present system of half tillage over large areas.

As adrocate of the absurd notion that wheat will sometimes turn to chess, misquotes the Scriptares to support his theory, in a recent issue of the Canadian Farmer. He says: "If we sow wheat wo shall reap wheat-or some other grain -so says the good Book, and I have found it so." The good Book makes no such statement, as any candid reader of 1 Cor. sp. 36.38-the passage adverted to-will at once perceive on a careful pernesl of the place. In fact, it contradicts the idea of wheat turning to ohess, by declaring that God "giveth to every seed its own body."

It is the belief of the Rural Homs that when a farmer sammers over a crop he loses not only the interest on the value of the crop, but also a large percentage in waste. A straw stack is no exception to this rule, and its waste of valuable properties is much greater than the wastage of grain that is housed. Sometimes foul weeds are introduced into a crop by foreign seeds, and in that caso it may be good policy to sell the stran stack immediately to the paper mills, as one farmer in the vicinity of Avon, N.Y., has done. In that osse, the value of the straw may be invested in commercial fertilizers or stable manure.

The incidents connected with our snnual shows, details of exhibits, and prise-lists, belong fairly to the sphere of the newspaper. A journal such as the Rurar Casadian finds its chief line of usefulness in helping to make the exhibitions what they are. It is for the newspaper, as such, to cluronicle the =esulte. The best atyle of farming is what secures the prize-taking products, whenever thera is competent judgment. To raise the style of farming, and thus elerate the standard of excellenoe, is our task, and a right noble one it is. Its reward is to be found in the evidences of agricaltural, horticultural, and industrial progress farnished by the exhibitions of each recuring year.
Thurlow Brown said: "I once killed birds in my wantonuess-God \{orgive me-merely to test my skill with the rifle. But I received a bitter lesson. While once passing through the roods I carelessly fired at a bird, caring only to discharge my gun, so ss to make my nest fire sure. I wounded a bird which sat upon the fence. I felt guilt-stricien at once, snd tried to catch it. Failing in that, I thought it would be hamanity to shoot it Bofore I could losd my rifle it finttered across the field, rhere I followed it, and found the panting sufferer at its nest, and the blood dripping upon its young: My craelty flashed upon me in all its nakedoess, and I cringed under my
reflections like a gailty brtoher as I was."

Tris is the way a sound-headed Virginia farmer got rid of she日p-eating dogs, after having had twenty or more killed and worried, as reported by a contemporary. He piled the twenty sheep's carcases in a heap, built a close rail fence about them, and smiled a quiet smile. Tho fence was made so as to form a suct of a half covering over the mution, in shape like an Esquimsux hat, with a hole at the top, so that, whils any kind of a dog could run on the outside and jump in, no possible dog could ever jump out. The next morning the granger strolled out to the trap with s shot gun and kulled the suspected car. But he let the trap remain, and repeated his strolls until ho hed shot forty-six dogs, and our contemporary adde, there is not now a bark to be heard in all the town.

Tre great Sullivani farm of 40,000 acres, in Ilinois, has been found too unmicldy to be profitable, and has been cut down to 20,000 , the other half having been resolved into small farms of from 100 to 300 acres in extent. We heard it freely stated, during our late tour in the NorthWest, that the Dalrymple and other great bonanza farms were not paying concerns. Indeed, it was currently reported that Dairymple was on the verge of bankruptoy. It will be a good thing for the world if it should prove that centralization and monopoly are inconsistent with profitable farming. How much better that 100 farmers and their families should carvo out independent and comfortable homes, than that one lord of the soil should be monarch of all he surveys on an ares of 10,000 acres.

Thrs is how the Fargo Argus of September 8rd annonnces the ingathering of the year's orops:"Hark! fll over the glorious Dakota-land rosound the glad anthems of 'Harvest Homo.' The reapers have done their joyous wor'. The golden sheaves have fallen thick over valley and plain. The pyramidal shocks stand lites long rows of wigrams all ovor the fields. The wondrons soil has done its daty nobly. The crop is as bounteous, the harvest as magnificent, as ever feasted the ese, gladdened the heart, and filled the pockot of san-browned hasbsadman since the Almighty Father of all good first set in motion tise everlasting march of seedtime and harvast, and flung out the many-tinted bow upon the high arches of heaven, as the banner of the season's steady wead. Dakots will need a whole month of thanlsegiving-days to do jastice to her ovarflowing cap of blessing. Let the charch bells chime thoir sonorous hosannas. Let the grand organs peal for th their thanderous peans of gratoful homage. Let every Dakotan heart and tongae givo thanks to Bim 'from phom cometh every good and paricot gift.' "

## FARM AND FIEXD.

## MANAGLNG MEADOWS.

Thore is much of our grass land that does not pay, yet its improvement would be easy and comparatively inoxpensive, and it is a grent loss if it is not seoured. But farmers havo beon disconraged by unsaccessful effirts in this direction. The custom was to scatter a little seed over the field, and so leave it. Now, if the soil hed not strength to support the one crop, how could it be expected to carry the two? Then it leas been tried to harrow the meadow, sow the seed and roll. This proved to be botter, but still not satis faotory. Our best farmers do this, with the important difference of adding manuro-spread either in fall or winter, or early spring, best in the fail. The surface eoil will then have received the washings of the manure, the harrow bringing up fresh soil; this mixed with the manure, which should be fine, there will be a bed for the seed. The manare should be clean ; if it is old, it wil be so. Such a course neper fails if there is suffioient euricimont, and the work can be done early, so as to get some of the winter moisture in case there should be an early dronth.

I have mentioned harrowing. Some object to this-which is another error. All crops raised by the farmer aro benefited by cultivation. Harrowing is one of the most successful modes of tillage, giving the air a chance, and stimulating the plant. Uuless a meadow is as good, or almost 88 good, as it can be, the harrow will improre it it will be cultivating the grass. Yet there are those who are horrified at the thought of "tearing up the sod," as I have frequently heard it expressed. This tearing up, however, always proves an advantage, trice passing over being bettor in general than once. Harrow and crossharrow and then roll. After that, some concentrated fertilizer may be applied, or a light coat of finely comminuted manure from the barn or compost hesp, which, of course, is so be evenly spresd. This vill bs a guard, in some messure, against droath, and beiug old manare, will be talsen up at once, as fast as the plant can appropriste it
Somatimes, where a meadow is badly run out, the land is ploughed, yet this does not always give estisfaction. The reason is very evident: there is a lack of fertility. It is but the common fault-an attempt in do without manure, or as little as possible, when it should be the object to see hor much can be used. To plough a meadow deep for reseeding, in our clay or drift soil, is to spoil it. In land porous or leachy it will sometimes succeed, that is, to grow a moderato crop. But in our cold, compect clays it will not do. Bometimes an improvement is made by ploughing very lightly, say two or two and a half inches. Thus a mellow seedbed is more apt to be obtained. But it is a pity in such case to go to the trouble of preparing the land and incur the expense of seed without manure, the very thing that is needed. It does not need much; only let it be of good quality, fine, sud, most of all, evenly spresd. In lumps or spots there will be unevenness, and much of the strength will be lost.
Neglect to use the roller on meadows in spring will result in loss amonnting to sevcral times the cost of roller and labour. The bencfit of rolling has long bean known; and it is almost equally beneficial to pastures, only the smoothness of sarface is not here required as in the other case, whers the mower is employed. The effect of frost upon gress lands is to loosen the soil, rbich, to a certain extent, is a bencfit; but boyond this it is hnrtfal, as it admits too much air, especially if an early drouth and severe winds shouil ocour. Bonides, in some seasons much of the grass is
started from its placo, and somo lifted out. This is moro the caso with clovor, and almost always on wot sonl or land not sufficiontly drained, and there is much of the lattor. Pass the roller over this, and at will give oompnotness to the sonl and fix the plants in it. But it is to be done at the raght tumo, when the land 18 nothor too wet nor too dry-just so that it will bear the horses and avold the mud, smoothing at the same timo the land. The tume is to bo watohed; yet it must not be done eo early that subsequent frosts will require re-rolling.-Cor. N.Y. Tribune.

## LIFE ON THE FARM.

As to its drudgery-whatever has been the case in the past, when there were stumps to bo palled and mortgages to be lifted from almost overy field; when it was a long way to market, and the buyer paid for produce in "trade;" when almost all implements were laboriously hewn out at home or clumsily hammered out by the village blacksmith-there is, happily, less drudgery on the farm now, and less need of it every year. Taking the year through, the working hours of a man on a farm are no longer than those of the section hand on the railway or the artisan in the shop, who has his ornn garden to hoe before breskfast or after supper. The busy lawyer or the doctor in arerage practice works longer and harder than the farmer. The grocer and the editor and bookleeper esoh sees less of their ohildren in their waking hours than the farmar who sometimes envies them their " easy life."
It must be conceded, of course, that the profits of farming are not so large on the average as those mhich are realized by men who are successful in mercantile or profeasional life. But, such as they are, they are surer-twent-fold surer, at least. Large profits are always coptingent on large risks. One must not expeot tI same rate of interest from Government bonds as from mining stooks. The wear and tear, the losses and defeats of business men in the last ten years, have been an experience that no farmer need covet. He may well be satisfied with the emall income that, taking one year with another, is such a sure one; to resign the five chances of shining success in commercial life to those who are willing to take the ninety-five chances of sure failure.

The cities and towns are full of men who once had visions of a business success that would in monthly profits put to shame the small profits of a farmer's lifetime. On the home-stretch of three-score-and-ten they find themsalves dependent for a livelihood on salaried positions, which they hold by a dismally uncertain tenure, or on the precarious commissions of a canvasser or a commercial traveller. In comfort and in income, the lives they have led make a shabby showing compared with what they might have done as farmers, and point an important moral for the young men who are now debating whether they wnll turn their backs on the farm, and try their luck in the lottery of city life.-Good Company.

## THE USE OF THE ROLLER.

The New England Farmer hes a timely article on this sabject. Indeed, it is almost almays timely to talk about the good effect of rolling land. The roller will not make moistare, but it will tend to retain some of it that is already in the soil, and its use may make the difference between a crop and no orop on land that is to be seeded down during a dry period. In a soil medo compact by the roller, a light shower may afford sufficient moisture to the surface to germinate the seeds and give them a healthy start, whilo in an over-mellow soil thay would lio dormant or merely sprout, and thon dry up and die. The iron rollar
is far batter than a wooden ono in every reepoot. It turns easily, being made in short sections; it is heary avoording to its size, and bears hardor on tho soil it covers. The weight of a largo rouden rollor is distribated ovor too muoh surface at once. The roller is often useful in the spring for oompacting the surface of nemly-seoded mowing or grass fields, bown the provious autumn, and which the frosts of winter have loosened up or torn to pieces. If olover seed be sown on suoh land, the rollor becomes slmost indisponsable, and some farmers prastise covering their grass seed with a rollur in place of a harrow or brush, which is an excellent method where the soil is sufficiently moist. Another good use of the iron roller is upon mowing lands recently top-dressed with stablo manuro. The weight is needed to press the manure down close to the surface, where it will keop moist, and all the sooner help start the new growth, at the same time leaving the surface smooth for the soythe or mowing machine. It is also used by gardeners to break up lumpy soil, and with alternato harrowinge, to render it fit for receiving the seeds of tender garden vegetables.

UNDERDRAIVING.
In prospecting for the underdraining of a piece of bottom land, the first thing to be sought for is the outlet. This should be always the lowest point in the plot. When there is running water this is easily ascertained. It would then be pell to get by actual measurement the difference betrreen this and the highest point of the central drain, and the distance between the two points. By this means the grade can be ascertained, which should be uniform from one end to the other. A fall of one foot in a hundred will be sufficient in most cases. Something more than this would be better; less than this would not always insure success.

The workmen should begin at the lowest point, and complete the central ditch firat. Then the lateral ditches may be dug, beginning at the apper end and running them as near parallel as possible, having an eye to the grade, and the springs of water to be tapped.

The tiles being put down, the tarf should be thrown apon them bottom upwards, and the soil be placed on top, sind the wholo trodden down as firmly as possible, to prevent the damage from heavy rains, which might occur soon.

Sometimes in prospecting for ditches it is proper to use a sounding rod, in order to avoid rooks which often interposs, and require blasting, or a change in the course after mach rorl has been done unnecessarily. This implement is made of iron, abont an inch in diameter, and five or six feet long, with a tapering point and a head about two inches thick, with an eve in it, and an iron bar some two feat long through it, in order to sid in its extraction when driven into the ground. This is effected with a sledge-hammor where there is any suspicion of nnderlaying rooks. -Pendleton's Sciontific Agriculture.

## THE HESSIAN FLY.

There are tro broods of the Hessian fiy (Cecidomyia destructor), one in the spring, and the second in antumn. The fall brood sppears in Augast or September, and each female deposits about thirty eggs on the leaves of the young winter whest
The eggs hatch in four days, and the larva or maggots make their way down to the base of the leaf, and remain bstrieen the leaf and stem, where they feed upon the juices of the plant, and cause it to tam yellow. In about $B$ month after tha egge are laid, the "flax-soed" atate is assumed, in phich the lerve romains until the warm days
of opring, when it passes into the pupa, and aftor wards amerges as the maturo fly, at the ond of April. The egge laid by theso flices soon hatch, and the maggots, aftor a for woeks, go into the little, brown, oval form of the "flax seed" state, and produce ties in autumn, thus comploting the cyulo in the life of this destructive pest of tho farmer.
As a preoantion, it is recommended to sow a part of the wheat early, and if aflicted by the fly, plough and sow tho rest late in the season. If tho post is not abundant, the crop may bo eavod by tho use of additional manure, or by cultivation. Pasturing the infested wheat field with sheep in lato autumn will destroy many of the eggs and young insects. The samo good results are obtained by rolling the orop. Only the hardy and more vigorous varieties of wheat should be sown in infested localities. There are a number of natural enomias of the Hessian fly, such as the Iohneumon paraites, whose comoined efforts destroy nenrly nine-tenths of all the flies that are hatohed. The burning of stubble is therefore not recommended, as it will destroy the useful parasites in large numbers, as well as the pests upon whioh they prey.-Amer. Agriculturist.

## PRICKLY COMFREY.

Much has been said, pro and con, in regard to the value of prickly comfrey as a forage plant. Having tried it for the last five years in a amall way (some rows iu my garden), I am prepared to express a favourable opinzon of it. It requires rich land; but ou such land, four cuttings may be made annually. Hoge and cows are fond of it, after they become ncoustomed to its use ; and no doubt lorses also will eat it. It is somewhat bitter, but stook soon get accustomed to this. I am feeding my hoge on it now (24th April); and no forago plunt comes carlier into use thau this, bave rye and pink clover (called Sivedish or German and perhaps French). It is propagated from divisious of the roots, and may be set out in April and May, or in the fall. In planting it, I would place it 3 feet by 2 feet, or 18 inches, digging a holo, and putting in it at least a peok of mauure, and manuring aunually. I have no analgsis of it, but no doubt it is very nutritious. In chering, it is found to be very mucilaginous. An acre of it mould furnish a great deal of food, with its four outlings, and on very rich land, no dou't five. It is but little affected by drought, and lives for years, perhaps perpetually, without ronowing.-Thomas Pollard, in Farmers' Cnion.

## DURABLE WHITEWASH.

Every farmor has more or less ontbuildinge and fences that are built of rough boards, that he does not feel that he can aford to paint with lead and oil, that could be covered very cheaply with whitowash, and thus greatly improved in appearanco, and, what to most of farmers is important, mado to last trice as long as if left exposed to the changes of westhor.

Tho great drawback in common whitowash is the want of darability, it being necessary to renow it every year ; bat an impreved preparation may bo mado, at a very low cost, that when properly put on rill last some years and look very well. It is mnde as follows: For five gallons, slack six quarts of good lime in hot water, covering it up while in the process of alacking, to keep in the steam; when slacked, strain through a coasse oloth ; add ono quart of salt, prepared by boiling in rater until dissolved, and the impurities have been skimmod off; also add one pound of alum, one-half pound of copperas, three-fourths of a pound of poushl, four quarts of very fine
sand, and colouring to suit the fanoy. This proparation elould be pat on hot; if proporly dono, it makes a durable paiut. To make a brillinnt white: To the amount of lime above mentioned, add one fourth of a pivand of burat alua, one pound of refined sugar, three pints of rico sugar, three pints of rice flour, mado intu a this pasto, and one pound of dissolved glue. This, like the other, should be applied hot. If the lime be good, it will make a very pure white that will last some years.-Ex.

> THE WHEAT MIDGE.

The Wheat Nidgo was formerly regarded as an insect of the same geuns with the Hessian fly, and was known as Cecidomyia tritici, but entomologists now rank it in a separate genus, Diplosis. In general appearance the paront insect much resembles the Hessian fy, but it deposits its eggs in the flowers of the wheat. The heads of wheat thus aitacked are soon seon to slorivel, and upon esamination there will be found numerous legless maggote, about one-twelfth of an inch long, and of an orange colour, among the forming grain, which are populariy known as midges ; a portion of the larre or midges go into the ground and pulpate, while others are harvested with the grain. Some parasite insects help reduce the numbers of the midge, and so far as is known, deep ploughing, to turn those which have entered the ground so deop that they cannot make iheir way to the surface. and the burning of the refuse in the cleaning of the grain, are the only artifi ial helps suggested. - Mrs. Treat's linjurious Inscecs.

## WEEDS ALUNG THE ROAD SIDES.

Some farmers appear to forget that their land extends to the midule of the roadway, and that they have rights aud duties in convection with the road-sides. At this season it is common to find by the way-side the largest weeds in the noighbourhood. They have had it all their own way, aud this bas been to ripen a large crop of seeds. Such neglect of the road-side is a great mistake, as it not only gives a neglected appearance to the street, but is a means of propagating weeds that do much damage to the crops in the adjoining fields. It does not matter how olean the cultivated crop may be kept, if weeds are left to grow just over the fence. It is too late now to do more than collect and burn these, but in doing this, tho seeds should all be killed, to make the work of subduing these pests less burdensome in the future, besides adding to the attractiveness of the street.

## CATTLE ON MEADOWS.

The editor of the Mirror and Fiarmer, in a trip ints the country, counted eight cows and a horse running on a meadow that had just been cleared of its hay crop, and it struck him very forcibly that the owner had commenced catting his 1883 orop a little early. This is a ruinous practuce that no level-headed farmer will allow. It is cheaper to feed from the barn.

## mOSS IN PASTURES.

A succossful Hatfeid iarmor tells the New Eng. land Homestead that he restored to usefulness a pasture which had been completely overrun by moss, by the application of muriate of potash, at the rate of 300 pounds to the acre. The field had not been plonghed for twonty-five years, and the moss showed that it was pretty well run out. But aftor the potash was applied, not a trace of moss rotasined, and olover and various nice grasses took its place withont re-seoding.

## CREAM.

"A nepltabhin," bays Juah Billinga, " unce broken, may pussibly bo repair d, lut tho sur.d will allas heop, thuir uyes un the ofive rheto the crnck ras.

A yellow must buw his wild oats, you kuow, exolaimed the adulescent John. ". Ies," rephed Annie, "but ono shoulda $t$ begin sowing so buen after cradling.

A hitrie boy who bas bi-n used to receiping his older brother's old toys and old clothes, recently remarked: "Ma, will I havo to marry his widow when he dies ?"

A Paris manufacturer claims to have discovered an excellent cigar rrapper in eucalyptus leaves. But it can never take the place of the pure H vana leaf raisod in Connecticut.
" Hz was the most perfect gentleman I ever saw," said a Kentuckian of Henry Clay. "When you went to see him, he handed you the whiskey bottle and then turned his back."
"Wosan," quoth Jones, " are the salad of lifo, at ouce a boon and a blessing." "In one way they're salad indeed," replied Brown; "they take so much time in thoir dressing."

Physiology: "Mother, what have people got noses for ?" asked an Austin child of her mother, who had seen better days. "To turn up at poor folks, my child," was the oynical response.

A little girl in Somerset, England, being requested to name the earlier writings of the Bible, glibly answered: "Davonshire, Exeter, Latious, Numbers, Astronomy, Jupiter, Jumbo, Ruth.'

A yav asked for admission to a show fur halfprice, as he had out one eye. But the manager told him it would take him twice as long to see the shor as it would auybody else, and charged him double.

Examner: "Well, sir, we will now suppose that you have been called in to attend a patient who has taken a powerful dose of arsenic. What would you advise giving him ?" Mr.D. (inembryo): "The last sacrament, sir."

Friend of the family (to the boy twins): "Y'm afraid you little fellows don't always agree. You fight each other sometimes, don't you ?" Twins -"Yeth, thir, thumtimth." Friend of the family: "Ah, I thought so. Well, who whips?" Twins: " Mamma whips."
The most absent-minded man was not the man who hunted for his pipe when it ras betreen his teeth, nor the man who threw his hat out of the window and tried to hang his cigar on a peg; no! but the man who put his umbrella to bed and went and stood behind the door.
"Youna men," said a tiresome and instructive old muff to a group of apprentices, " young men should begin at the bottom of their business and work up." "I can't," responded one of them. " Why not?" asked the old muff. "Because I am a well-digger," enswered the apprentice.
"I'm not going to school any more," said a little four-year-old boy to his mamme on his retarn from his first day at the kindergarten. "Why, my dear, don't you liko to see the litile girls and boys?" "Yes, but I don't mant to go," persisted the boy; "'eause my teacher says that to-morrow sho's going to try to put an idea into my head."

The prize-in-every-package tea stores are at present the sabject of a general crusade. When a man bays a fiffy cent package of tea, expecting to get a $\$ 5.00$ prize, and takes it to the wife of his bosom, who opens it and finds therein $B$ pertor spoon, he feels a yearning desire to go out ander the silont stars, by the back fence and kick himself.—Peck's Surı.

## GARDEN AND ORCBARD.

## IN゙SELIS LAJUIINLS IO THE PEAR.

In the evidence nuw under reviow tho poar-treo slug (Selaniria cerasi) is the only one montioned as partioularly affecting tho pear. It also visits the oherry and plam. It is described as a disgusting, slimy hittle creature, with the anterior segments oularged, presenting an appearance something lite a tadpule, and accompanied by an unpleasant odour. It destroys the leaves of the tree, and thus impairs the maturing of the fruit. Mr. Saunders says :-
.. It is the progeny of a four-minged fly of a blackish colour, with transparent winge, which is abroad early in the summer. The insect spends the winter in the chrysalis state in the ground, and the flies emerge early in the senson, laying their egreon the pear, cherry, or plum, whioh hatch out into the sluge. From what I have seen of the insect, I believe it to be doublebrooded, but I am not quite aure."

Among many remedies, ho has found that the use of hellebore is the most effectual. An ounce of hellebore in a pailful of water, applied with a syringe, will soon rid the tree of them. (Ses Fig. 46.)
naects injurious to tire plusi.
The plum has numerous enemies. The first of these on the list is the Plum Sphinx (Sphin.x drupiferarum), of which a life-size representation, with one of its moth, is given. It is described as follows:-
"It is a large green caterpillar, with white stripes on the sides, and a prominent horn on the tail. It attains the length, at maturity, of perhaps three or three and a half inches, and is correspondingly thick. This produces a very bandsome sphinx mota, which is a night-fying insect, aud has a flight somewhat similar to that of the humming bird. It deposits its egge about the month of June, and the larva attains its maturity about the end of autumn, when it descends from the tree, enters the ground and changes to a chryealis, in which form it remains until the following season." (Ses Figs. 47, 48 and 49.)-Report Ontario Agriculural Commission.

## honey in fruit raising.

My friend began fruit-growing, says a Now York Tribune correspondent, on a farm of 100 acres, pondent, on a farm of 100 acres,
Without experience. He leased on shares, for
grain-growing, all but ten acres. He purohased gran-growing, all but ten acres. He purohased and 300 blackberry plants; 120 grape vines, a few currants and goosebernes, 200 peach, 800 apple, 100 pear, and 50 quince trees, costing altogether $\$ 100$, and embracing the leading varieties, except with the apples, which were all Baldwins, and the pears, which were all Dwarf Duchesse. The 800 apples occupied aix acres. Excepting grapes, quinces, and pears, all the abovo fruits were planted either in or batween the rows of apple trees. He layered grapes and raspberries. The strawberries and some other species multiphed fast; thus the second jear he had a stock of plants of has own groming for farther planting. Thus he extended the enterprise gradually each season, buying only a fer improved varieties, and extending his pear, peach, and quince plants.

The first soason there was no incomo from fruits. The second year his fruit sales amounted to $\$ 28$, the third year to $\$ 141$, the fourth $\$ 854$, tho fifth to $\$ 576$, yot the quinces, peare, and apples had not arrived at bearing ago, the peaches only moderately one soason, the grapes were just ready to give returns, the atramberry orop lad boen out short two searons by late spring frosts, and only eight acres had been occupied. The fruit sales wero made at extremely low pricesfive to seven cents per quart-and much work had been dono in a roundabout manner. It will be safe to estimato his recoipts annually from the ton acres, whon all the trees are of bearing age, allowing for occasional failures of some species,
form handles to lift tho framo by. Over these frames I strotol and tack on cheap muslin. The fruit to be dried is spread on these frames, whioh aro carried out in the morning as soon as the sun is high onough, and brought in about five o'olook and stacked one nbove nnother in any safo place. I do not turn the fruit during the process of drying, as the muslin is so thin the fruit dries from the underside too. When dry, I place the fruit on platters in the oven until quite heated through, for the parpose of deatroying nny eggs that may havo beon doposited by inseots whilo oxposed out of dor-3. Thon I store the fruit in sealed jars or other vessols. With this plan I have no difficulty about ke日ping the fruit from the worms."
the pear tree slua-Selandria cerasi.


Fig 46.
Fig. 46 represents this slug at a full grown, and also in a younger state fecding on the leaf ; o represents the perfect fly.

THE PLUM SPHINX AND CHRYSALIS-Sphinx drupiferarum.

at $\$ 1,000$, from which, at a rough estimate, $\$ 400$ to $\$ 500$ should be deducted for labour, gathering, marketing, etc. These figures are not startling, they simply represent what the novice may reasonably expect from a similar venture.

## drying frlit in the sun.

A. E., Peoris (Ill.), writes an exchange: "There are many farmers who dry only a small quantity of fruit, just enough to supply the wants of their own family. These farmors cannot, many of them, afford the expense of a patent dryer or evaporntor, but mast depend upon home contrivances and the assistance of the san's rays and their cooking stoves. Of course it is a troublesome plan, this drying frait in the sun, but of late jears I have made the labour less by employing home-made frames, three by six feet in aize, of four pieces of stont lath, the two end pieces projecting so as to

## protection from frosts.

A cold snap usually comes in early autamn, after which thexe are weeks of tho finest days in the year. It therefore pays to take some pains to protect the tender plants during two or three frosty nights, that their bloom may be enjoyed afterwards. A light sheet, or even newspapers spread over beds of geraniums, coleus, etc., will save them. A group of cannas may in this way be kept in its beauty, while, if left unprotected, the luxuriant growth is out down by the frost, and soon becomes unsightly. Any one who has gone to all the care and toil of bringing a fine bed of tender plants to perfection, should certainly use every precaution to preserve the plants as long as possible.

## old currant bushes.

It is too common to plant ourrants along the boundary fences of gardens, giving them no care, and allowing the grass, Canada thistles and burdooks to grow up among them. In spite of this treatment, the bushes bear crops every year, but the currants are small and the crop spare. Cultivation, manure and pruning, as we have found by trial, will at least quadruple the size of the berries. You will bo too busy next spring, at the time for renovating the bushes, and the work may be done now at the beginning of autumn. First, clear sway all the dead grass and stems of weeds. Then spade the sod handsomely and deeply ander. Thon trim out all the old, halfdead rood, and leavo an evenly distributed sapply of young shoots. Lastly, cover che ground for three feet on each side with manure, which will be washed into the soil with autumn rains. Next spring, spade what manare is left lightly under, and keep the ground clean. You will have ourrants, even of the old sorts, that will grace a table; and if you have the cherry or Versailles currant, the berries will grow to about five-eighths of an inch in diametar.
Thes soil for radishes should be rery light and rich.

Many plants are killed by too mnch protection. For example, strawbervies are hardy, and the covering of straw, marsh hay, eto., that is recommended for them is not so much to shield from cold as to prevent frequent freezing and thaving of the soil.

## TEE DAIRY.

## A CHEAP MILK.HOU'SE.

We havo a milk-house, made of briok, with twenty-inoh walls, and coverod with about oightoon inohos of sawdust. A window (hung on lhinges) is situntod in the south oud, covered with $a$ wire-soreon. A flue is placod in the south ond, which aots as $\Omega$ vontilator, and osn also be usod to put $n p$ a stove, if desired, in wintor. A low, steady fire will koep the room at a propor temperature in very oold weather. At the south ond is also a tronoh about fifteou inches deep. in whiol flows the waste water from the pump. This is lot in from the north end by using a piece of pipe from an old force pump; the water is conveyed slong the side by a small trenoh left in tho floor, which is made of cemont. From the trench a tile goes through the yard nnd garden, having its outlet in a calf pasture, where is placed a box or trough to oatch water for calves. So we have three things combined-an outlet for the water in the tronoh, a drain for the garden and yard, and a watering place for the calves. It will very materially aid in keeping the building cool in hot weather, to open the window in the morning and let in cool air. This building, though amall in the interior-sis and two-thirds feet, by eight and twoothirds feet-will hold a large quantity of milk. It is very easily kept olean and fresh, and if not wanted as a mills-house in winter, can be used as an aboveground collar, by placing on another door and fising a bundle of straw to just fit between the doors, which can be fastened to the outside door and swrung with the door. The cost of building need not exceed $\$ 125$; it oan be built with 8,000 bricks, and will never be found a bad investment. Our butter is pronounced "gilt-edged," thongh the cream is raised in common one-gallon orocks.-Cor. American Agriculturist.

## KEEPING BUTTER.

When butter comes from the churn axd working table it has a cortain fiavour to whioh "the market" is a stranger. It may be oharacterized as a delicate, creamy, buttermill flavour, in which the ethereal and fagitive sentiment of sweet vernal grass and clover blossoms blend with what in the market is called "rosiness," a coarser essence preserved by salt and tickling the palaies of grocerymen and the "trade." Rosiness is very well in its way, but he that can get butter whose fiavour pleasurably titilates the olfactorias and mollifies the most sensitive nerves of tho most exacting tongue-tip, satisfying the sensitive palate, and, besides, earries him baok dreamily to the sweetbreathed kine and $t$ o green pastures, to the thick cream and the plashing charn-mast enjoy it Fithin four or five days of the churning.
Such a butter may well sell for a dollar a pound in the town-hot and vile with odours of humanity sud horses, of servers and street sweepings-but it will not keep. It is like the morning oloud and the early dew. Salt will not save it. The ethereal essence of cream will go, but the rosiness will remain) Salt keeps that.

Well-packed butter, if it is good to start with, and is packed in good oak frking, scalded and brined as every dairyman knows hovy to do; solidy packed, headed and filled with strong brine, so that every paticle of air is excluded, every interstioe filled with the brine-sach will beep a year, and will be rosy and sweet and marketable; and the butter must be good. Salt will not keep poor butter.
If the oream or mills is wrong-or, to go to tho fountain head, if the cows and their feed are not right-the butter will show it. If the oharning
bo ovordone, and the working bo overdone or underdone, the butter will be off-off-off. Packing is of littlo nccount, unless ". 0 butter is mado up to tho mark os well as the markot.

Kooping! Why aro we agked to tell how to koep buttor? Thero 18 vory littlo use for a dairyman who oan mako good butter to try to lecep it. Sont to market it will only keep till buyers find out where it is, and can get and pass it into the consumers' hands, after it has paid tro or threo profita. In any family that wo knuw it will not lseop long if it is good enough.

The best butter keeps after this fashion the shortest time, and jet Juno butter is good in March and May. Oleo will keep, they say, and we should hope it might. He who has poor butter, or oleo, may koop it as long as he ploases; but our readers may rest assured that if their butter is good, and packed after the good old fashion above indicated, there will nover bo a complaint of its not keoping.-American Dairyman.

## HOW TO SET MILK.

This is a subject upon which creamerice and farmers cannot be too well informed, and it is best to know the character and objects of those giving advice. Mr. C. C. Buoll, of Rock Falla, Ill., a well-known and successful dairyman, gives the following directions for setting cream so as to obtain the best results. And this accords with the experience of dairymen everywhere.

The mill is put rarm in deep vessels, in cold water, with good ventilation. This will produce the best butter. If we adopis the Cooley system, the whole mast bo submerged and without ventitilation. He favoured setting with ventilation as especially adapted to the plan of setting the cream. All farmers must have some means of cooling. Let milk set twelve hours, and you get butter good as the best, if the fixtures are all kept aweet and olean. The difficulty is that farmers have not the necessary appliances. If, after the milk is thoroughly cooled, the vessels are covered sll right, there is no longer necessity for ventilation, after the animal odour is carried off during cooling. Thus he thinks the cream can be as perfectly saved as in any other way, and the orenm is then easily trensported, if it be wishod to sell it ; and, no light matter, the farmer has sweet milk for use or for feeding swreet to hogs or calves. The temperature required is from $50^{\circ}$ to $60^{\circ}$ Fahrenheit. Thus 118 cubic inches of cream should give a pound of butter.-Iora Homestead.

KINDLY TREATMENT OF DAIRY STOCK.
Mr. Parcell, in the Report of the New Jersey Agricultaral Society, says:-"It is important that dairy stook, from the young calf to the old cow that is being fed for beef, should be handled and treated kindly. If a calf is handled roughly, and becomes wild and vicious thereby, when it becomes a cow you may expect the same; but if handled cerefully and treated with kindness, when grown up she will bo mild and gentle. It may not always be so, but in general it is. There have always been many cows spoiled by the person having the care of and milking them, by Whipping or frightening them whenever they come in his way; or if, when milking, a cow hoists hor foot, or kioks (which is generally cansed by pain) such a fellow stops milking and commences rhipping, or worse, kicking the cow, snd she, beoomII $g$ onraged, holds up her mills, kicks bsok, and is finally ruined. Never whip a cow for kioking if she does kick the milk-pan out of your hend, and sometimes apset aud knook yon over; bai be kind and gentle with her, and milk her out with as little excitement as possible, and if sho gets
over hor kioking proponeity, it mill be by mild and not by harsh treatment. Novor whip a oow becanse sho lacks, for it will do no good, but will do a great doal of harm."

## BEAU-IDEAL OF A DUTCH COW.

A "beste koe" must show a finoly mouldod head; largo nostrils, than, transparent horns; a olear, bright eye, than, lurge, and not excessivoly wrinkled eyolids, ruse-coloured noner mombers of the oye; purely rod lachrymal; a kind, mild, countenance; blue nose; thin neek; free respiration, fine bones, well-formed body, with rathor broad hind parts; straight back; long, thin tail ; round but moderately bent ribs; developed belly; stout, yet not heavy legs ; smooth joints; thin, mellow, moveable skin; soft hair; dolicately haired, broad and drooping ndder; four well. formed dark-coloured teats; well-developed milk and blood vessels; vains on the belly and abont the adder to be proportionally broad and vigorous, and of wenlike swell, and the veins of the udder and inner hams to spread net-like; the openings through which tho milk and blood veins enter the body to be large and roomy. A cow thus formed is also npt to show a perfect escut-oheon.-C. Muller, United States Consul at Amsterdam.

## TREATMENT OF COWS.

Phil J. Ebersold, of the Clarksville Star, says on this subject:-"A heifer coming in at two years old is the best time to develop her future mulking qualities, but comfortable quarters, generous feed, regularity in milking and kind treat ment, will do much in rearing $\Omega$ fine milker. It may appear to many that it is taking a great deal of trouble to attain desired results, but we claim that now-a-days, wien cream is worth twelve cents per inch, it pays a good interest for extra labour employed to rear and improve our dairy cows to the utmost milking capscity. We sold a seven-year-old con that was milked for three jears past without raising a calf, and she is yet giving eight quarts of milk per day, and has been treated as above stated."

## ODOURS FROM MILE.

From my acquaintance with efforts to remove pungent and offensive odours from milk, I aun fully persuaded that prevention is not only better than care, but the only practicable cure. Milk retains odours once imbibed with a tenacity that cannot be overcome by any mere enchantmenk. No vacaum-pan, nor subinerged can, nor any other apparatus with however magical a name, will make bad mill good. Odours might doubtless be distilled off by attaching a condeuser or an exhauster to the vacuum pan, but until the Creator establishes some new code of laws for the aotion of matter, no practicable process of milksetting will very materially help the matter.-O.S. Bliss, in Tribune.

The record as a milker of the wonderfal 00 w owned by A. D. Hull, of Charlestown, N.H., is attracting considerable attention in that section from cattle breeders and dsirymon. She is four years cld, and from a grade Jersey and Ayrshire cow imported by Sherman Paris. Her weight is 850 pounds, whioh, in the space of pineteen days, has been exceeded by that of her milk, which weighed 953 pounds 18 ounces. The first milking reighed 46 pounds 10 ounces, the last 53 puands 4 ounces, and averaged apward of 50 pounds por day for eleven days of the time Feighod.".

## HORSES AND CATTLE.

## THE CLEVELAVD BAYS.

Dr. McMonngle iu has ovidonco quotes Mr. Georgo E. Brown, of Aurora, Illinois, in rogard to these hursos as folluwi.-
$\because$ Mr. Geo. E. Bromn, of Aurors, lllinois, is the only American impurter and breedur of Cluteland Bays so oalled. In endeavouring to produco the park horse he explains himself thus: 'Having somo knowledge of the Clovelnad Bays, wo were confident they would meet the requiroments. Wo went to Eugland and thoroughly avestigatod them, as well as the different breeds in Scotiand and Frauce. We also consulted with the best brecders, managors of largo stage companies, and others larzoly interested in differont horses. Our first conclusions were confirmed, and we commenced importing in 1875 . We nre trill nware that many writers (some of them English) olaim that the Cleveland Bays are oxtinct. In a certuin sense this is truo, and by the same reason. ing Cydo an 1 Norman are in the same fix, that is to shy, not the same they were one hundred jears ago.
"As originally bred, the Cleveland Bay was a long, coarso horse, weighing over 1,000 pcunds, and used to hanl the ponderous old stages over long routes. With the advent of stean those old stages wero displaced by lighter vehicles, requiring lighter horses; consequently, during the past fifty years, the Cleveland Bay has been considerably reduced in sice; in some cases by an infusion of tha blood of the race-horse, and in others by judicious selections of the finer families."

Youatt, speaking of the improved Cleveland, says: "Now wo have an animal with far more strength and treblo the spoed."

Professor Low says: "It is the progressive mixture of the blood of horses of higher breeding, with those of the common race, that has produced the variety of coach horse usually termed the Cleveland Bay." The district of Clevelend owes its superiority to the productior of this beautiful race of horses to the possession of a definite breed, formed, not by accideutal mixture, but by continued cultivation.
In a word, the original Cleveland Bay is no longer to be seen, but he is replaced by a horse suited, by the comming. ling of the thoroughbred with the old Cleveland blood, for the purposes of the times.
Mr. Patteson says of the Cleveland Bays :-
"There are not many Cleveland Bay stallions in the country. A fer-perhaps not puro-bred -were exlibited both at Hamilton and Toronto at the late fairs. Those at the Toroato Exhibition were shown by a farmer named, I think, Somerville. There are no native pure-bred Clevoland 3 yss; in fnct, I am not bware thet there are auy pure bred mares of this class in the couniry at all. Mr. Abbott, of Montreal, imported two pure hred mares, but I know of no others.
"I shmuld welcome the importation of Cleveland Bay mares for the improvement of our oarriape stock, but the most we can hope for is the stallion. The Cleveland stallion comes from the distri $t$ in England indicated by his name, and a Piod prize-takiug specimen can be got there for $\$ 1,000$."

Mr. Williams, however, says:-
"There are a fow Cleveland Bays in this Province, but I do not thuk so highly of them as Mr. Patteson does. The few I have seen have usually been sery deficient in action, while their colts Lave been raw-boned, very elow to mature, not very atrong in constitution, and, while rather imposing in sppearance, from a side viem, make
bad hnrses to follow. I have not eeen the Oloveland Bays in the old oountry, and I am speating merely of those that have been brought out here, as nearly pure-bred as thoy can be got, asd their progony. I thinls the breed is protty well run out.
It is quite possible to reconoile, or at least account for, these rather conflicting statoments. There is a great scarcity of Clevolan? Bays, both in Eugland and clouwhero, and nuthing is more likely than that inferior horses, claiming $t s$ be improved Cleveland Bays, which have no suoh defiuite type or staudurd as some other breods, should be palmed off upon the foreign buyer. On this poiat Mr. Geo. E. Brown, already quoted, seys :-
"Of late years the domand for hanters bas been very groas, and as Clevoland mares and thoroughbred stallions produce the most popular ' weight-carrying hunter,' they have beon extensively bred in this way, and to-day even the improved Clevoland is very scarce, whioh has led to the assertion that they are extmot. But there are reliable breeders in Yorkshare, having mares descended from old and popular familios, who talse pains to secure the service of stallions of the same class. But even this cannot last lohg, for agents of the Russian, German aud Frenol Gov-


CLEVELAND BAY.
ernments are constantly scouring the country for large and strong ' $n a g s$ ' and Cleveland stallions, paying high prices, which accounts for their not being snoner introduced into this country. The improved Cleveland stands from $10 \frac{1}{5}$ to 167 hands high, and weighs from 1,350 to $=, 450$ pounds.
"It has been my good fortune to personally inspect some of tho most popular stallious that have been acknovledged and patronized as Cleveland Bays by the most relabble breeders in Yorkshire, curiug the past fifteen or twenty years. Among them are 'B.arnaby,' 'Lnck. $8 \cdot$ All.' 'Canm. pion, ' Brilliant,' 'Emperor,' 'Wonderful Lad,' - General Benetit,' and many others. Some of the above are orraed thare and duing service still, with many of their descendants.
"Stailions called 'Cleveland Bays' have no doubt been 2 mported and failed of good resulte; but genuine Cleveland Bays havo to my certain knowledge been imported and been ominently suiocessful in producing just the 'model horse,' bay, 16 hunds, weoghing 1,200 pounds, with plenty of bone, symmetrical all over, 'aotion high nnd trappy,' yet he is at home on the reaper or threshing machine."-Report of the Oltario Agricultural Commission.

Importations of fine-bred cattlo are an everydry occurrence in this country. We are bound to have tho best.-Nor'-Weat Farmer.

## OXEN CROWDING IN THE YOKE.

Forty years ago, in Canadn, twenty milos north of Lake Ontario, at the first settloment of that part of the country, all teaming, as well as log. ging, was done with oxen, horses being few and not obtainable through the limited menns of the new settlers. I had several pairs during eight years' rosidenco in that seotion, and was greatly annoyed by the crowding and hauing of the oxen in the unrrow winter snow roads of from one to four feet deep of snow, nud in warm weather time by the sume oxen in the same pote hauling from enoh other to about the utmost of thour strength. Obsorving this, and urgoutly dosiring to remedy the difficilty without whipping, it occurred to me to alter the length of the yoko, using a very short one when on snow or narrow roads, and a very long one for warm or hot weathor, and a common medium longth for log. ging and the ususl farm work. Adnpting this method, both orowding and hauling were instantly prevented. Host, with being too olose together, causes the oxen to haul off from each other, and narrow, deep snow roads csuse them to crowd, the stronger prevailing and always going shead of the other. The hores of my oxen would lap each other with the short winter road yoke on them, but no crowding. Whipping or any other instruction I deem to be unnecessary.-New York Tribune Correspondent.

## TRAINIVG VICIOUS HORSES.

A now and very simple method of training vicious horses was exhibited at West Philadelphia recently, and the manner in which some of the wildest horses were subdued was astonishing. The first trial was that of a licking or "bucking" mare, which her owner said had allowed no rider on her back for a period of at least five years. She becamo tame in about as many miuntes, and allowed herself to be ridden about without a sign of her former wildness. The means by which the result was accomplished was by a piece of light rope, which sias passed around the front of the jars of the mare just above the upper teeth, orossed in her mouth, and thence seoured back of her neok. It is clained that no horse will jump or kick when thas secured, and that a horse, after receiving the treatment a fers times, will abandon his vicious v tys forever. A very simple method was also shown by which a kicking horse could bo shod. It consisted in counecting the animal's hoad anl tail by means of a rope fastened to the tail and then to the bit, and then dparn tight enough to inoline the animal's hesd to one side. [uis, it is clanm?, makes it absolutaly impossible for the horse to kick on the stde of the rope. At the same exhibitiou a horse which, for many years, had to be bound on the ground to be shod, suffured the blacksmith to operate on him without attempting to kick, whilo speured in the manner described.-Ohio Farmer.

Mr. Cambes. S. Taylon, Burlington, N. J., remarks in Ihe Breeder's Gazefte that his "great ubjection to the avarage Jersey record "is based on the fact that men of good character put forward figures wholly upon the ovidence of the herdsman, and "the teraptation to make a large showing is extraordinary."

## SHEEP AND SWINE.

HOW TO HANDLE SHEEP-THE PRO. FITS OF SHEEP RAISING.

The following artiole, by a corrospondont of Hone and Farm, though speoially writton for the Sonth, is, most of it, well adapted to Canadian farmers:-
I have thought it best to give your renders an artiole on " How to Handle a Flook of Sheep," ab there may be some who would engage in it who do not anderstand the best way.

As I have aaid in former articles, it is much better for new beginners to atart with a flock of common native sheep, as they are much hardier than improved breeds, and will stand more exposure and rough treatment. If the sheep are small, with but little wool, then oross them with Cotisold bucks to give them size, more wool, and good fattening qualitios.

Then, if the flock is small, say 100 or 200 , and matton is wanted for the family or for sale, cross these with Southdown bucks. This oross gives a sheep of good size, five slape and good mutton -sheep that maturo early and fatten woll-and as a general thing pay bettor for wool and mutton than any other kind of sheep. But if a large flock is lept, and only for wool, then the best of all orosses is with the merino, ss no other breed of sheep will so well bear flooking in large numbers. As a general thing, it is best to have lambs drop about the time that grass eprings up, as they will be less trouble to take care of and the ewes can get a good bite of grass. But when early lambs are wanted, then the best time for lambing is in December. Where a good market is convenient, thas latter pays better than the former, as good lamis can be ready by the first of June or sooner. At that time they always bring a fine price, and when a field of rye, wheat or bsiley is sown, and the owes and lambs are put on it, and given some grain besides, the lambs grow rapidly and pay well.
The best time to alter lambs is when youngabout a week old will do-but many out the bag off when only two or three days old. This is quickly done, and with no damage. When lambs get old it is difficult to alter them without danger of their dying. Whore lambs are intended for market it is best not to aiter them, as they sell better than when castrated.
The pasture should be ohanged as often as convenient, as sheep ran over the grass and do not like to eat that that has been trampled on. When it can bs done, it is best to divide the pasture, that they will always have fresh grass that has not been trampled on. Sheep destroy more grass running over it than they eat.
The period of gestation wich ewes is 154 days; from this a calculation can be made at what time bucks should be put with the erres. One buck to each forty ewes is about right, although $I$ have known one buok to serve 100 ewes. In \& former article I said that a wire fence would protect sheep from dogs. One of your correepondents objected to the ides, saying that if the sheop were frightened they would injure themselves against the berbs. This is true of large flocks, bat it can be remedied by nailing flat rails on the post inside the wire fonce, or what is better, plant a hedge of osage orange inside the fence.
I neglected to say that the tails of lambs should be cut off when they are young.
As to the money that can be made raising sheap, I believe it is equal to that of any otiaer stock, and in connection rion cotton raising will pay better than anything else on the farm. The advantages are: the mutton for the use of the family, the wool, the manure they drop on the ground, and the briars and weeds they destroy.

Kutton is now worth, in Atlanta and othor southern oities, eloven conts por pound gross. This will bo about \$11 por head for good murton, and the labour of one man can easily raise and fatton 200 hoad.

Then the greatest value is the nice fat lamb and mutton that oan bo used for the family, and I doubt muoh if a farmer, after having for one month nice fat Southiown lamb, would evor be willing to go baok to bacon again.
The south eats too muoh bacon. It is not healthy, and certainly not as nioe as fresh meat.
I read of all the trouble that planters havo to got advances. Now, if a planter has a flook of sheep equal to his cloared lande, eay two eheep to overy aore that he owns, the lambs and nool will pay all his expenses, and he need ask no one for an advance.
There is another great advantage in handling sheep on cotton plantations, and that is the ease with whoh the land oan be manured, if a planter who has shoep will divide his farminto four fields -one to be in grass, one in peas, one in corn, and one in cotton ; feed off the peas to hoge, and what mutton that is wanted for market, and then feed the cotton seed to the sheep on the field where the peas grew. This will so enrich the land that it will grow a good crop of corn or cotton, and this rotation kept up for a fow years will bring land back to its original fertility; or the land where the peas grem can be sown to rye or some small grann, upon which she日p can be pastured while being fed with cotton seed, and the rye can be turued under next spring, and planted to corn or cotton, os tise laud can be sown to winter oats.
A great many men, when speaking of sheep, say get fine-blooded sheep; that they pay much better, and that a farmer has more pride in fine stook than common ones. That is all true, when a farmer has plenty of money to buy them with, and has shods to protect them; butfew beginners in the south have any spare eash, so the best way is to get the oheapest and breed up.
A cheap and good protection for sheep from rains can be made with poles or rails, so laid that one side will be open, and covered with cornstalks or hay. This is very necessary, as shaep suffer more from rain and wet than they do from cold weather. It is much better to separate the ewes before lambing time, so that they oan be better protected and better fed, and if a field of small grain can be had to turn them on, it will give the lambs a good start and push them rapidly.
I have read that goats are a grast protection to sheep from dogs. Of this I know not, but I have my doubts, as goats are very mach afraid of dogs. I have a small flock of goats, and when they trouble the field I sf', the dogs on them, and they keep amay for monthe, and I see no disposition to fight the dogs. I have read an article on the feeding of rape, or colza, to sheep s ferm weeks before being coupled witn the ram, and it was said to produce almost invaribbly twin lambs. I have some 80 wn this year, and I will try it and report. Ewes should bo in good condition when they go with the buok, as this will bring good, strong lambs.

In former articles I have spoken of cotton seed as a winter feed for sheep, and I am satisfied that at present prices it is good, cheap foud. But it may be that cotton seed will so advance in prioe that grain, hay and paas can be raised ohoaper than cotton seed; of this hind, I doabt if corn somn thiok in Augast, ond out with a mower, will not be the choapest food that can be raised, but a field of small grain sown oarly will be a great help.

Pias are able to consume far more food in proportion to their weight than either shoep or oxen.

THE SHEEP BOT-FLY.
The Sheep Bot-fly or Gad-fy (Estrus ovis) inhabits the nostrils of sheep during its larva or grub state. The fly is of a brown colour with yollow bands, and is about the size of a small honey bee. The oggs are depositod in the nostrils of the sheop in early summor, and, as soon as they hatoh the larvo, make their way up to the frontal einuses, whero they attaoh thomselves by little hooks that sarround the mouth. They oonrinue to feod thare upon the muous of the abiding looality. The larve, which at first mere oreamy white, beoame browa in age. The grabs remain in the nostrile antil the following spring, when they pass down the nostrile and drop from tho animal. This outward passage is a very irritating oue to the sheep, often causing them great dis. comfort. After dropping to the ground the grabs burrow and pass into the inactive or pupa state, from which thoy come out as the perfect flies in six or eight weoks.
The gad or bot-flies soon provide for a nemp brood of the aheep pest by depositing eggs in the nostrils as described above. Opinions differ as to the injurious effeots of the sheep bots. It is difficult to assign death to them in many cases. They are certainly a great annoyance, and for this, is nothing more, measures should be taken to destroy them. The remedies are two-fold : first, the preventive of the eggs being deposited; and secondly, the removal of the grubs. It is pretty generally considered that dry and open situations are muoh less infested with the bot-fly than whera there is thick under-buab in low and damp loostions. The most common method of beeping the fies from depositing the eggs is to tar the noses of all the sheep. This tarring should be done at froquent intervals during the season of the fly. After the larvo are once well settied in their upper nostril home, it is a hard matter to dialodge them. An irritating substance, as some kind of snuff administered that will produce violent aneezing, is probably the only method of proceeding against them. There is something very strange in this peculiar parasitism, where a part of one animal must be the home of another, and for aught we know, the grub at the same time mas have some smaller animal which it unwillingly supports.
"So nataralists obegrve, a fee has smaller feess thst on him pros.
And these have smaller still to bite 'em, and so prosesi ad infnitum."
-Correspondent Farmerz' Revisv.
A orlibratid Frenoh flookmaster, upon being pressed to say wherein the secret of his success in sheep lay, said: "It is only a matter of food and care. Give them a variety of food and plenty of it, and they will tarn ont matton and wool. That is about all there is of ancoess in any stook. But with well-brod animals to fesd, tho profits are largely enhanced." In the same direction a western dairyman eaid: "Plonty of butter and oheese lies more in good feeding than any other one thing."
A German suthority olaims as the result of twenty-five years' experience, contrars to the general belief there, that larger quantities of wool are obtained from small sheop in relation to s given weight than in larger kinds, the relative inorease amounting to from twenty to thirty par oent. On this side the water we have long known this faot, in breeding merinos, and honoe the French merinos have long been disoarded for the American merinos, desoendants of the Spanish sheep. Thoy are undoabtedly the best fine-wooled sheep in the morld.

Every farmer raising sheep or swine ahould subsoribe for the Robat. Oasaduas. Only $\$ 1$ par јeas,

# GOOD PAY TO AGENTS. 

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prompt attention, must be addressed to RDITOR RURAL Drompt attention.

## The Futal Cumadiau. <br> EDITED BY W. F. CLARKE.

TORONTO, OCTOBER 2ND, 1882.
SkETCHES OF CANADIAN WILD BIRDS.
Mr. Kells desires us to intimate that he will have to suspend his interesting ekotohes for an igsue or tro. He will be absent for a short time, on a visit to somo brother ornithologists, whose collections ho is anxious to study; sad as the olasses of birds he wishes especially to investigate come next in order to be sketched, he prefers to delay for a little, so as to obtan the freshest and fullest partioulars. We hope that the youthful rosders of the Rubal Casadias, and all of them for that matter, will study these articles on our foathered friends, so as to become more interested in them, and more familiar with them.

## TORONTO INDUSTRIAL EXHIBITION.

"Canada's Great Fair," as the Toronto dailies dolight to call it, has once more passed into history. Orring to absence on a tour in the North.West we did not see it, which we much regret; still, having seen its predecessors, we can form a pretty good idea of it from the details so fully published in the metropolitan journals. Financinlly, it was all that could be desired. The gross reccipts were nearly $\$ 29,000$, an increase of abont $\$ 6,000$ over those of last year. It must be owned that the chief attrections to the crowds that attonded congisted of features distinot from and foreign to the essential belongings of an indastrial fair. "Speeding in the horse ring," donkey races, a mock bombardment, and various othor side-shows provided by the directorste, had the most to do in drawing the multitudes who, day after day, tb: aged the Exhibition grounds. It is pleaded in defence of these extraneous attractions, that mankind must be amused as well as instructed; that, on such occasions, people turn out for a holiday; and that many who would not go to a purely agricultural and industrit exhibition will be tempted from home, and led to visit a sceno whioh ie at once a play-ground and a school; carrying away with them the recollection of not a few valuable lessons, along with a gense of enjoyment. We are not inclined to be oynical in regard to these thinge, and 59t are forced to confess to a doubt whether the good really ovarbalances the evil in the present instance. This doubt especially attaches to the horse-racing feature, perhaps the most prominent one in the recent fuir. Horse-racing it was, though disguised by the soft name of "speeding in the ring." In view of the bar moral intluence which almays conneets itself more or less with horseracing, and with the experience of our neighbours seross the lines, who have thoroughly tested the effects of the "agricultural hoss-trot" in connection with their State Farrs, we fear the Toronto Directorate have not acted wisely in this mattor. That their intentions have been good; that they bave honestly wished to malse their oxhibition, on the whole, beneficial to the pablic, rather than othorwise, wo do not question for a moment; but
tho hard faots of observation and oxporic nce justify hositanoy in aflixing tho seal of approval to thoir polioy.
Apart from its questionablo points, the Exhibition was evidontly an oxcellont one, woll fitted to illustrate the resources nad products of Ontario, and to ronse a spirit of emulation among our farmare and manafaiturers. The tarn-ont of atock appeare to have beon unusually large, and of ohnice quality. Wo aro pleased to note that two highly doberving broeds of eattle wore, for tho first timo, displayed to our poople in respeotablo force. We rofer to the Polled Angus and Jerseys. The oapabilitios of this country in the way of supplying the British market with fat cattlo and shoep wero never more olearly domonstrated. Our agricultural implement makers have dono themselves honour by showing how fully they are able to meet the growing wants of the farming commonity in the line of improved implemente and maohines. It was a wise thing to show the public the process of oheese and butter manufa ture in actual operation. The honey display was more varied and excellont than last year, which is saying much, not only in view of last year's performance in this direction, but also in view of the fact that this has been an exceptionally bad season for bees. It was expected that the exhibition of fruit would be meagre, for Ontario has rarely known a year so unfriendly to the products of the orohard; nevertheless, this department exceeded the most sanguine anticipations, and the natural reflection was, if these are samples of What our fruit-growers can do in a bad year, this province mast indeed be one of the best fruit countries in the world. Garden products, both vegetable and floral, were in profuse display, and could hardly fail to induce a taste for hortioultare. The electric light was a novel and pleasiug feature, illustrating one of the most interesting and important improvements of the age we live in. We are glad to observe that a more general satisfaction with tie judging is mentioned by the papers as one of the characteristics of the recent fair. This is indicative of greater judicial competence a thing much to be desired in connection with all our shows. On the whole, Toronto and the province at large may be congratulated on the succeseful outcome of "Canada's Great Fair" for the year 1882.

## extortionate freight rates to

 THE NORTH.WEST.No jnot-minded person will gradge his noighbour a fair profit on his labour, capital, or skill, in whatever department of basiness these may be employed. We are benefited in so many ways by railroads, that the public is disposed to be specially generous toward the et terpzising men who build and run them. Still, there is a limit to the genarosity oi the poople in this direotion, and it is quite possible for the eagerness of monied men to carry them the length of extortion. That this has been the case with the St . Paul, Minneapolis and Manitoba Railroad will be questioned by few. So high are the froight oharges levied by this rosd, that it is no wonder manufacturers and settlers are laying their grievances bare to the eye of honest oriticism. Mr. F. W. Glen, of Oghara, one of our most prominent implement-makers, has recently pubhshed somo starthng facts and figures in regard to the rosd just mantioned. He shows that the charge for sarrying reapers is $\$ 6.50$ each over and above a fair rete; that on threshing machines. $\$ 68.25$ above an average rate; while the tariff on smaller implements, such as ploughs, harrcws, grain drills, horse hay rakes, waggons, eto., is in the same $p$ pportion.
Another manufacturer testifies that out of a
charge of $\$ 812$ por car-lond from Toronto to Brandon, the Grand Trunk and Chiergo and North Western roads get only \$66, while the St. P., M., and M., and the C. P. R. get $\$ 256$, nearly five times the amount, for convoging loss than half the distaucol It is no wonder that at the recent annual meeting of the St. P., M., and M., the surplus not revenue for the fisoal year was roported to be $\$ 085,000$; that the dividends were so large it was proposed to announce them quartorly; and that, as in the case of othor concerna paying high profits, the proprioty of watoring the stock 18 under grave considoration.
It is provorbial that corporations have neither oonsoienoes nor souls, and this is omphatically true of railroad corporations. Their natures are hard and tough as the steol rails on which their cars run at such monoy-making rates. What is the much-abused and long-suffering publio to do? Compatition has beon tried and proved a failure. In railroad, as in other business concerns, the big figh gobble up the little ones, and sometimes, as in the case of the G. W. R., one large figh is gulped down by anothor yet larger. The people of the North American continent are minus hundreds of millions of dollars contributed by them to check monopoly by competition. Soul. less ourporations have become futter and richer in consequence of the very means employed to keep them wrthin moderate dimensions. When there is no other course praoticable, rival rosde pool their carninge, and so become, practically, a monopoly. The result of all this is, that farmers groan and struggle against a taration so exorbitant, that were it levied by Government for any purpose under herven, it would excite xebellion. It was receutly stated that there are four men in the oity of New York who, by a single stroke of the pen, could impose a tax on the people of the United States which Congress dare not levy. A rise of five cents per bushel on the freightage of wheat from Chicago to Ner York would amonnt on this year's estimated crop to from $380,000,000$ to $\$ 100,000,000$.
There is but one remedy for this gigantic evil, and that is, restrictive railway legislation. To apply it, tho people must be enlightoned as to the facts, and stirred up to demand their rights. We tall of liberty, and fancy we are a free people. The fact is, that the freest nations on earth are under the tyranny of great monied corporations, that can only be reached by the strong arm of law. When any attompt is made to reach them thas, bribery is used to paralyse the only arm that can interpose for the protection of the public. Perception of the evil, vigilance over legislators, anion and determination among the people, will secure the reform of this abuse, as they have done the reform of others. Farmers, particularly, should open their eyes to the ovil that is so rife. Extortionste railroading is a tax on every acre of land in the country. The soil is the ultimate paymaster, and every dollar of ill-gotten gain is coined out of the syeat of the man pho tills the soil.
"For evory oril ander the 3 an There is a remody, or thore's nono If share be one, let us find it : If thero be none, novar mind it."
There is no way in which the Vanderbilts, Goulds, and other railmay magnates can honeatly roll up their millions at the cate they are doing it. The days of highway robbery are said tc be past. So they are, in the Dick Turpin style of performance. Bat the dsvil is a gentleman in these days of intelligence and refinement. He does not bestride a fleet horse, arm himself with a brace of pistols, aud say, "Your money or your life." No, he aits in a luxurious office, picks up a gold pen, and quictly writes, "Freight tariff from A. to B., \$-per cwt." Our sle日k railway
directors are tho modern highwaymen, and can
only be hold in chook by the onactmont and onforeement of just lews for the protection of the peoplo. The old-timo highwayman pliod his trado suocessfully, for want of offectivo Governmontal intorforence. In lidso manner does the mudern highwayman, who robs, not with pistole, but with froight-bills. When tho peoplo riso ens masse, and domnad offeotive Governmental interferenco, we elall get it, and not before. Already there are signs in the United States of a grand popular uprising for this purpose, and there must be one throughout Canada. In the mighty army that will fight for and win viotory along this line, the farmers will be the most important class, and it is high time they wore enlisting for the fray.

## FARU FENCES.

All through the Great North. West, recently visited by us, it is observable that stook are feuced in, not out. The farmers of Manitoba, Dalsota, and Northern Minnesots cannot, if they would, adopt any ochor system. Fence material is too soaree and costly to make the system practionblo that obtains at the east. There can be little question that the time is coming, and is uvi very far distant, when thore will be a great revolution as to fencing all over the Amorican continont. Frets like the iollowing prove this to a doad certainty:-
The Iora Agricultural Report for 1850 says: "The annual cost of keeping up our fences exceeds the total sales of our live stook."
The Iowa Report of 1800 says: "The total cost of fencing the land in most of our States exceods the cost of the buildings."
The Massarhusetts State Reports give the cost of fencing in sevaral States: "Up to 1875, the cost of fences in Kansas had reached 830,000 , 000 ; in New York, $\$ 144,000,000$; in Iows, 874,000,000 ; in Now Hampshire, $\$ 42,000,000$; in Pennsylvania, $\$ 106,000,000$; in Ma3sachusetts, $\$ 23,000,000$; in Maine, $\$ 25,000,000.1$
The Report of the New York State Agricultural Society for 1882 says: "The taxes paid by the farmers of New York Stata are thirty.three cents per acre. The annual taxes that fences occasion are $\$ 1.12$ per acre."
The Report of the United States Department of Agriculture declares: "The fencing in use in the United States, in 1875, had cost $81,748,529$, 185.'

We see it deolared that the annual cost of maintaining the fences of the United States is $\$ 449,476,098$.

## A BIRD'S-EYE VIEW OF THE SEASON.

The following opitome is from the monthly report of the Ontario Bureau of Industries, and gives, in a brief, compact form, the main facts relating to the crop yields for 1882 :

The early weeks of spring were dreary in the extreme. There was little rainfall, a succession of killing frosts, and a continuous blow of east winds A rainy spell followed, and with the setting in of warm weather the crops sprang up as if they were under an enchantment. The meadows thickened, the fall wheat, that was believed to have been ruined, grevt to be the finest crop seen in twenty years, and the spring grains promised a splendid yield.
But just at the critical time another change occurred. The heavy grain became lodged, the wheat in many districts was smitten with rust, and throughout the western counties harvest Fork has been intorrupted by \& week of rain Fortanstely, however, the storm was not general throughout Ontario, and in a large wheat-growing section no barm has been done.
The correspondents of the Burean refer this month (August) to the state of grain crops on the 1st of the month, and to the progreas of haying and harvesting operations at that date. They and harvesting operations at that date. on live
also report on the fruit and root crops, on live
stock and the dairying intorest, and on the supply of farm labour aud the rate of rages. A largo majority of the correspondents aro themsolves farmers, and roport what thoy soo and know. It is not possible, however, to organize a full and officient btaff in a single season. The services of mon who will, without remuneration, colleot and report facts promptly and intolligently aro not procurable in every voighbourhood; but it is gratifying to know that there aro many sual: mon in tho country, and that thoy fully appreciato the efforts mado to promote the farmer's interests.
The month of July was pery favourable for hay making, the weathor boing sioady, and the tem. perature moderate, and the bulk of the crop has been saved in exoellont ordor. Clover recoverod to some oxtent from the serious damage done to it by winter exposure and spring frosts, but in the most favoured localities the yield does not exceed one ton per acre, and the general average is muoh less. Timothy and mixed grassos were vory heavg, and the uniform report from all sections is that no better orop has been gathered in twenty years.

Throughout the western half of the Province fall wheat has been remarkably heavy, but it has not escaped the dangers incident to a late season of ripening. Owing to a rank growth oi utraw and occasional rain storms, the crop lodged badly in many localities just as the grain was begioning to harden, and about the same time, uifortunately, it was struck with rust. As a conse quence, the sample is not generally as good as was looked for; it is lacking in plumpness and colour. The worst effects from those causes are reported from the loamy lands of the southwestern counties-from Esses, and the basins of the Thames and Sydenham rivers. In some sections the whole crop has been reaped and saved in good.condition, but the bulk of it was either standing or in shock when work was intorruped last week by a rain storm of several days' duration. Late reports asy that in many fields the grain has sprouted, but the full extent of the damage will not be known for some time. The storm was locsl, and confined chiefly to the western counties. In the Georgian Bay countios a large acrenge has been saved in good order, and the sample is prime. In the Lake Ontario and St. ILawrence and Ottawa counties, the crop was budly winter-killed, and what remains will yield less than an average. In the East Midland counties a good crop will be harvested, but not equal to last year's. In the Lake Erie counties, where some grain has been threshed, it is found to yield from 20 to 90 bushels per acre, and correspondents in all counties west of Toronto estimate the yield at not less than 20 bushels per acre. Spring wheat in the eastern half of the Province, where it is extensively grown, gives promise of an abundant harvest, but in some districts it is being attaoked by the midge, the Hessian fly, and rust.
Barleg is everywhere a heary crop, and a large aoreage has been grown, especially in the Lake Ontario and Esst Midland counties. The grain is uniformly plump and of good colon, with a fer exceptions where it ripened too rapidly, owing to the drought, or where it lodged and rusted. In the western counties the yield is good, bat the harvesting season has been unfavourable.
There is a large area under oats, and, excepting in the Georgian Bay counties, the crop is reported good all over. In those counties it was affected by a local drought. The ostimates of correspondents range from 35 to 60 bushels per acre. Peas are a good orop in all the northern counties, bat elserfhere they have been injured by the bug.

The corn crop is everywhere pronounced a failure. The season has been too wet and cold for it, snd thongh it has made good growth during the past three weeks, there is litule chance nor of its attrining to half an aversge crop. Beans are ohiefly grown in the counties of Kent, Norfolk, Brant and Renfrew. They are generally reported good, but in some localities the crop is worthless.

Potatoes were injured by ton much rain early in the season, aud later on by the drought. The beetle, too, is about as troublesome as ever Turnips, mangolds and carrots have only partially como up, and a good crop is rare; turnips ! paid.
ospocially aro late, and are badly injured by the fly.

The frut orop is poor in all tho bost fruitgrowing districts. The blossoming season was hopeful, but the fruit has been destroyed by a combiued attaok of frost, blight and insoots. Apples are good only in the Lako Outario and River St. Lawrence counties, and thore they will bo less than half a orop. Ponchos and plums are almost a total failure, perrs and grapes aro fairly good, and amall fruit alone is abundant.

Pastures were good throughout June and the first half of July, but recontly thoy have become parohed and bare in many parts of the Province. This has been especially the case in the Lake Ontario counties, whero in some districts cattle had to be given extra fodder. Fat cattlo are scarce, particularly in the finer classes suitable for export, and thore is a disposition to force young cattlo prematurely into the market. Ths dairying interest is less flourishing now than it was earlier in the season, and tho milk supply is falling off. The recent rains, however, will doubtless make tho pastares good again.

Furm labourers have been scarce, and the de mand for thom was incrensed by the genernl heaviness of the harvest. Wages ran from \$1.5C to $\$ 2.50$ per day, and from $\$ 25$ to $\$ 40$ per month with board, and even at these high figures it was difficult to procure men.

Tue Inter-Ocean (Chicago) is of opinion that is the State can teach boys useful trades after it gets them into penal or reformatory institutions, surely it should find the means of tenohing them such irades before they have lapsed from virtue. This is a strong argument for tesohing agriculture, the most universally prnoticable of all trader, in our public sohools.

It is reported that the American Jersey Clut are proposing to exclude from ontry in their herd book all animals not bred cither in the U.S. or on the island of Jersey. Mrs. E. M. Jones, of Brockville, Ont., the pioncer Jersay breeder o! this Province, we believe, has entered a most vigorous and oloquent protest against this narrow and unjust policy in the Country rentleman, which it is to be hoped, may have the desired effect.

Tue attention of new settlers on the prairie should be directed to the advantage of providing earth cellars, built on the surface of the ground within a rod or two of the rear of their dwellingg, and conneoted by a covered way. Not only are they convenient for a thousand household parposes, but are a sure place of refuge and protection in case of fire, during a blinding snowstorm, or a high mind like those devastating Iowa and Ne braska. Should a prairie farmer, wife and children, a mile distant from a ueighbour, be driven from his burning house, his ground hole would save the family from death by freeaing, and against twisting deadly cyclones, should they ever find this valley. It is the oul form of sure protection for the settler against wind, fire, lightning and freezing.-Nor'-West Farmer.

## WURTH KNOWIVG.

A Winnipeg business man, writing to the Monetary Times, gives the following rules to be observed in connection with the shipment of freight from Ontario:-

1st. Be sure and bring through with you one copy of the invoice, with all articles or packages named on it, together with shipping bill, having written on it the guaranteed through rate of froight.

2nd. Mark every package fully with the address, also the weight if possible.

3rd. Never propay the froight through, for in propaying freight you run the risk of having it billed uere as if not paid by some of the American roads over whose lines it may pass, and then have to pay it ofer again here, wilhout any redress, except tryiug to collect the amoust first paid.

## BEES AND POULTRY.

## THE WHITE COCHINS.

This variety of fowls, when so kept that their plamage does net becomo soiled, present a very beautiful appearance. They daffer ouly in colour from the Buff Cochins. The adsantages of these large Asiatio fowls may be bricily sammed up by saying, that they are quiet in their habits; do not fly all oyer oreation; bear confinement well, and so aro adapted to small yards io towns or cities; may be restricted to their qrarters by a low fence, and are good layers. It must bo admitted that, as table birds, they are not firstclass, their flesh being somewhat coarse, and inolined to stringiness, especially when they are no longer chickens.

## sUCCESSFLL PULLTHY RAISNG.

In rasising poultry, or stock of any kind, it should be the aim of everyone to beep it healthy and improse it. You csn do it vary easily by adopting somesystematic rules. These mas bo summed up in brief, as follows :-

1. Constract your house good and warm, so as to asoid damp floors and afford s flood of sanlight. Sun. shine is better than medicine.
2. Prorido a dustugg and scratching place, where jun can bary wheat and corn, ard thus induce the foris to talo needfal exercise.
3. Prorido yourself with some good hoalthy chichens, none to.bo over three or four jears old, giving one coct to every trelve hens.
4. Gire plenty of fresh air at all times of the ycar, espacially in summer.
5. Give plents of fresh Fater dailj, and neter allow the forls to go thirsty.
6. Fead them systemstically tro or three times a day, seaticr the food so that thes csan't cast too fest or withoat proper exercise. Do not foed more than thes will cat up clean, or thes Fill ges tirod of that kind of feod.
7. Givo them a rariety of both dry and cooked feed; a mixtare of cooind mexl and reactaties is a: a coilent dijug fur their muthisg seca!
a Gire solt ferd in tho murting, atal the whole gran at night, except a litice whrat or cracked oorn ilaced in the scratching places to give them crercise d̀aring the dar.
8. Abowe all things, keep tho hen house clean and well rentilated.
9. Do not cromd too many in ene house. If son de, look out for discase.
10. Uiso carbo:ic poader in tho austing bins occarionally, to deatroy iice.
11. Wisch goor roosts and botsmon of laying nesta, and whito nash oace a nect in summer. and orce a manth in winter.
12. Let the old and joung have 15 largo a rargo as posnible - the larger the betier.
13. Dontt breed too mang kinds of foris at the smmo time, zaless 500 aro goins into the brainess. Three or four will toep your bacds foll.

14. Introduce new blood into your stools every year or so, by eithor buying a cockerel or sittings of eggs from somo reliablo brooder.
15. In buying birds or egge, go to some reliable breeder who has his reputation at stako. You may have to pay a little more for birds, but you can depend on what you get. Culls are not cheap at any price.
16. Savo the best birds for next jear's breeding, and sond tho others to market. In shipping fanoy poultry to market, send it dressed. - Charles Lyman, in Empire State Agriculturist.

## HOW FAR WILL BEES GO FOR HONEY?

The precise distanco that bees rill fly in search of forage I am unable to state. Some consider three miles to be the extreme limit, while others placo it as high as treolro miles. The must satisfactory results may be expected if abuadant stores can be found within tro miles. It 16 evi. stores can be found within tro miles. It 16 evi-
deat that they rork more freely upon the blos.

This is a finc illustration of the advantages of obtaining forage within a reasonably short distance. I have nover had direat proof of the effect, yet thore is ground for the beliof that if honey could not be found nearer, bees would not fly the distance named without being gradually led along by newly opening blossoms, as in the csse men-tioned.-Quimby's New Bee Keeper.

## ROBBER BEES.

If all the colonies are hopt strong, there is no danger of robbing. It is only the weak ones that are robbed. Working with bees at anseasonablo times, learing : - - $i 0$ exposed in the apiary, ctc., induces robbing. Colonies of black bees and nuclei are usually the sufferers. Contra. ing the entrance, so that a single bee can pass, is usually a cure for robbing. In times of acarcity of honey, the apiarist should ba caraful not to , heep a hive open long, or robbing may be the colonies maintain sentinels at the entrance in times of scarcity. Those of that colony are allowed to pess, but strangers are "arrested on the spot." If a colony is uuable to defend itself, close up the entrance with wire cloth and remove it to the cellar, or some other convenient place, for a fors days, and mhen it is returnod to the old stand, contract the entrance to allurs only one bee to rass at a time.

## FOTVL IN CONFINE. MSENT.

Fowls are almays more profitablo and less trouble when lept within certain limits. There are, perhaps, many that mould disagree with me concerning the trouble, considering fowls at large the least trable. From experience $I$ cannot think so. I eltrays feed my forls regularly, and it is no more trouble in that respect. I furaish them with broken shells, and this I always do when at large. The green food is cxtra, but the pleasure of having a fine regotable adjoining thair yards, and the larger yicld in egge, more than compensaies this
 very hear dit aptarg. If incre w suf augtius p jase there the eggs are, and could gather them Fith a raen wa sappis of honey, I shonid in the dark.-Country Gentionan. prefer that it ahonid not be in the immediate ricinity of the hires. Ther flights are evidently modited by local coaditions. Darng the large sield incm bassrood in 1874, as the blossoms failed in the ralles, the bees continued orioging in the same quantity of hones, folloning the basswood day by day, as it opened on the hills, unti! the first week in August, whea thoy stiil came in luenvily loaded, bat Fers tired from a long fight. I drove to the heights, six miles distant, and found that bassmeod ass thero just coming intn blonm. I immediatcly mored $4 S$ swarms to thes location, and in the following week those 48 colonios gare me ono ton of surplus hones, thile the il swarms left at homo did not socuro onelualf the mmonas, get they cuntinucd morking ungn tive same ground doring the same period.

## A PRECOLIOUS CHICEEN.

The following, from tho Hamilton Daily Tines of the lith inst., will be of interest to poultercrs: " Mr. Thos Gain, of tho East Hamilton poultry yaris, cxhibits a fair-sized egg, the produot of a wiits Irghorn pullet hatched on the 15th April last Tucegs fas lsid on Saforday lsst, and Mr. Gain claims it is about the fastest tiacic on record. Ho does not know of faster. The asual time tsken by a chacken to derclop into henhood is from nitio to trelvo months.

If jou aso the egss laid by your onn fomls for hatching, select them from joar best specimens, and haro them as fresh as possible. If you aro aboot busing those of ang choice breed, be sure that you get them from reliable partioa.

## A AIANTTOBA COW HOUSE.

The following article, from the pon of Mr. J. S. Ireland, of Weat Lynno, and the accompanying illustrations appeared in the columns of our oxcellent contemporary the Nor'. West Farmer in reply to a request for a plan of a cow stable suitable to the requirements of the country, and as many readers of the Rural Canadian haye settled in JInnitoba, and others aro contomplating moving there at an early date, the artiole and plans are reproducod here for the benefit of whom it may concern :-
"As no partioulars are given as regards height of walls, pitch of roof, and the kind of floor to be used, all of which are necessary to be known in estimating the cost of construction, I take it for granted that tho building is to be built in a substantial manner, using nu surplus matenal, and as cheap as may be consistent with strength and durabil.ty. I rend you a plan of a stable that is convenient, and snited to the rants and requ rements of the majority of farmers in the Prairio Province.

"Fig. 1 is a front and end view of the stable; size, 60 feet by 30 feet, 14 feet height of walls, and 18 inches thich, with four doors in front, one entering behind each row of cattle, and one into pasiege-ray; tro in the end, one entering iuto meal or storage room, and one into the loft or mow over the catcle. Three small windors in front and two in the end, to admit light into pas-sage-ways and stable; the window frames should bo set into the malls, and the concrete built over them. Double rindorrs should be ased, that is, one placed near the inside of the frame, and ihe other near the outside. When the windoms are single, the brea ${ }^{t h}$ from the cattle in cold weather froezes on them so thick that it makes them, in a measaro, opaque. Tue auside sash may bo hung on a piruta the cestre, ou as $w$ upen ensily in give rentilarioli ju atio spring and summer seasons, when the stock is required to be stabled, and the outside one can be tulen out, and a mosquito bar put in its place. The donrs are hong on hinges; thes aro chexper, and betuer adapted to the country than slido doors.


His. 2
"Fig. 2 shows the plan of cattlo floor, which contains oighteen doablo stalls, with amplo accommodation for thirts-six hesa of caltio, besides
calf houso, meal or store room, and ono loose boxor 00 fwe at calving time, or an extra oalf pen, if required; a. a. cattle stalle, six feet four inches in widlh from contre to ceutre, and eleven foet in length from the passage-way $c$. in front, to the wall behind the cows on tho one side, and the same distance from the passage to the manure dropped on the other sido; b.b. is a manger, twenty inohes high from the floor, two feet wide on top, and one foot six inches in the bottom. The top of the manger is formed of three by six soantling, running the widh of the stalle, and from the scantling to the flocr of inch lumber, made tight and close at the bottom for feeding meal, or a small box at each side of the stalls can be made for that purpose. c. passage-way, in front of cows to feed from, four feet wide and boarded up, three feet six inches. d. d. manure drops. The stalls described are for large-sized cows. e. e. are stalls for smaller-sized cows or young cattle, five feet centre to centre, and ton feet from parsageway to the partitions on one side, aud the same distance to the centre of manure drop, $d$, on the other. $f . f$. are mangers, the same as $d . d$. $g$. passage-may, the same as c. $h$. is manure drop, i. calf house, J . meal room, $k$ loose box, l. $l$. mangers, m. side passage, $n$ ladder to loft. 0 . shows the position of a root house that can be built, if required, and cutered from the stable by the passane-ways. Tho partitions between the stalls ure sis fect long, and four feet four iuches high, boarded up with two inch plank, each partition requiriog four pieces of two by six plank spiked to the studding, the two top pieces having a small bolt through cach end, makiug them firm and secure.


Fig. 3.
"Fig. 3 is a hay loft; A. s. are feed shoots for delivering hay into centre of passage-way. The lay can be thrown in at the tops, or through small doors in the sides, according to the height of hay in the mow. B., entrance to loft from passage below; $A$, shoot, the same as A. A., to deliv $r$ hay into feed room for calf pen and loose box.


Fig. 4.
"Fig. 4 shows stall parition, and manner of tying curss, a a., end rium ol mauger. b., a thoinch round stako, the bottom end lcft into top piece of the mauger, and the other end bolted to the top bar of stall partition; c. is ue-chain, to shide up sud dowin on the state. Iusiead of staties, rods of meh iron can be used, fuorteen iuches long, and bolted on the stall partitions for the chains to shido on, but thos wonld add cighteen dollars to the cost of the buudius, and the staties suswer equally as well. Tho partitions are boxrded up fivo fect lugh. Height of stable, seren reot from floor to luft; the upper floor is laid rith inch lumbor; if polos aro used iustesd of lamber for tho upper fioor, it will lassen the cost in the estimato about thirty dollars.

17
22
2

Inch lumber, 14 feet long 1,888

Total number of foe 7,800 Estisurif cosf.
7.600 foet of lamber, at 830 por thonsand ......... 8228 24,000 shingles, at 8450 por thousand.. 8228
108

4,140 onbio foet of concrote, at 15 cents per foot . Nails and lingos
Viodows
Wiadows.
Cayponiers' mork
8
100

Total cost $\qquad$ \$1,083
"I have made no estimate of kind of floor to be usod, as lumber and other materials are oxponsive. And as D. S. is in the neighbourhood where stone is plentiful, a floor pared with stone will be the cheapost and best floor for him to make, and he can do the paving limself at spare times, and the cost will be small. He can also change the plan as regards width of stalls, passage-ways, ventilation, ete, if necessary, for no person can possibly know so well what an individual wants as himself, if he be a reflectiog man."

## HUUSE SLODS.

An economical farmer says: "This is what I do with my slops: I have most of it carried and thrown on to the stable manure, which is under cover. This makes the manure in better order for use in three months than it otherwise would be in pine months I also leep a bor or barrel near the kitchen packed full of the short gtraw and dust such as comes from a fanning mill, eto. Into this barrel or box are thrown emall quantities of wash and dishmater. The water drains through, leaving the substance in the stran and dust. When it is fully charged, I move it away and supply another box. You will be surprised to see what a valuable feeder you will acquire during the year. This substance is generslly thrown on the ground, which finds its way into the well, is drank, and followed by sickness in the iamily."

We would advise immigrants to this country to dispose of the most of their effects below, and bring the cash hore. They will find they can suit themselves better by buying here, as agricaltural implements and settlers' effects can be purchesed here at almost the same rates as in Ontario. It rould not be amiss, however, to bring horses and cattle, and when doing so they should get the best that is to bo had. There is just as much freight on a poor animal as on a thoroughbred.-Nor' West Farmer.

Ir has frequently been statad that the farmers in the North-West do not use manure on the land, but this is not the case in every instance. While in many cases it may not be necessary, and even injurious to the crops, to manare the land, in others it may be adrissble. But in one case in Kildonan, a field has yielded rheat for fifty consecutive years without a particle of manure. Farmers should study their land as a stadent Fould his book, and thes will reap a rich referd.

As the antumn approsches and the long nighte come on, the farmer, as well as the man of any other occapation, begins to provido himself with realing matter. by moans of mhich he is able to pleasantls and profitably spend tho time which, if squandered, would be of no avail to himself. There are many things for the parent to take into consideration now, in making selection of literatare for the winter. Cold westher is a time when children can contentedly fasten their altention apon books sad papers. Through the hot days of summer thero is a grester tendoncy to play, while through the loug, cold wintor, mind is more activo, retentive, and cayer for knowledgo. Such books and papers as will best educsto are the ones that should bo selocted. This thing should bo looked into. as it is a great and grave error to nogloct to provide that which will not es food for the mind at a time when that mind is the most luangry for sach food, and ranst be thas fed or suffer a great and lasting loss tinercby. - Kor:West Farmer.

## HOME CIRCLE.

## TOPKNOT.

## ay nes c a mininuston.

It was a fresh, bright morning in early spring. "The very morning to work out of doors," Mrs. Buiter declared so, donning a sun-bonnet, which she kept on purpose for gardening, and taking her trowel, slie proceeded on a tour
of inspection over the pretty lawn that surrounded her pleaof inspectio
sent home.
She inquired into the needs of the crocuses and daffodils, oold the hyacinths they were late in blooming, noted wit pleasure the purpling buds of the lilace, then turned her
steps to the corner which needed her most-a bed of lilies steps to th: corner which needed her inost-a bed of lilhes
of the valley, that were becoming far too numerous for thriving growth.
Mro. Butler's next-dour neighbour, Mrs. Lane, wanted a bed of lilies, too. If these were to be thinned out, why should she not h-ve some of them? She hat a spot of unoccupied pround, between the house and a high fence, damp and cool, just the place where those hily leaves would grow broad and green. So she hovered about her window, peeping through the hall-closed binds, until her neighbour had come over to the lilies, which were not far from the fence hat seprated end happened out she rap daniothear over her head ang appened out. She ran downo we gate and rok a look up steet and down: hen slowly comeng ack, stoppeda fint theye she would have run out unceremoniously and asked for some. But there were reasons why Mrs. Lise felt a slight hesitancy in approachang her neighbour this morning. On some occarrences of the la had been narsing a little resentraeni blik she had come to the conclusion to put avide all ill.feelings and reluen to break with lightly. She was hall templed, thoulih, io 00 braight baik into the house without speaking particularly straght baek into the house wothout speaking, particularis
as Mrs. Butler did not once look her was:. But, then, she wanted to break the scy hitle crust that was gradually forming between them, and this was a good opportunity; tesides, he wanted some bolbs. So she camo up to the fence where she wanted some balus. So she came up to the ence where the lady stooped over ber work, saying, "Good marning,
Mfrs. Butler," with a slight constraint in the tones, it is trae. Bat the trowel went modustriously on, and the head was nol lifted. She evidently did not wish to hear ; but Mrs. Lane tried again:
"Good morning! I say; what ate jou busicd about so Taly?

Mrs. Baller looked up, but the glanee that dashed from ber black eyes to the other lasy was not such as she was woar to bestow upon her neighbour. Neither were the tones-that seemed to issue from the cavernas belonsed to Mirs. Batler, as she sand

## bours."

Infeed! And who is engaged in that business, pray?' and Mirs Lane brought the sbard over her cheeks, so that her peighbour should not see the red that she felh was rush 2 Dg into them.
Arrs. Butler stood up now, and the lady on the other side of the fence fairly quailed heneal h the withering gaze, as, Jooking her tall ta the lace, Mirs. Batler said

Is is best to speak ont pianly. Mrs. Izae I do not mash 80 hold $2 n y$ conversation with you It on'y shaws
what 2 perfect hypocnte you mast be io come around with mhat a perfect hypocnte you mast be to come around with
your smooth 'Good-mormugs' after what you told Mrs. your smooth - Goo
Ketchume abont me
"Oa, now! Yon're making 2 mountain out of a mole hill," sand Mrs. Lang, confusedly. "Ynu'd belter find oat
 A litue explaration
all our, I dare say.:

No explanations." said Mrs. Retler "thay you an posnoly make will sausty me. Indeed I will not histen to
205, anit certainty I do nim feel called upon to make $2 n y$ to 205, and cerrainty 1 do nint fel called upon to rake 2ny to you. So ler it be distinctly anderstood, once for all, that wish to have nothing whatever to do with you from thes mae fortion sam marched beat a hasiy tetreat into hart own hosse.
The first thang she did was to indaige in 2 good cry ; the next, to make a from resolve neere to have anyting $m$ re io promised pever to breathe 10 a livieg sool of coarse, she premased neere to breike clse how woid it have goticn to had broken her promise
A hen is a sermangl's inofiensive creatore, bul is cipahle of accomphishing a Fest amount of mischief-lar more than
 and rescuts placeci among our statusuc and general arerages -the namper of gazrels to one hen-we should dout lers be orerwheimed. Fors it was nothing minre nor less ihan 2 little gray hen that was the cocasion of the shatp words that weetcso sadis ost of tune with the song of the rubing
betding preen and swrel sprigg airs of that morning.
Treere had been slight el rads ta the sky b-tween ihe two familices on this acenune before. The lanes had for gears made a pracice of keeping $2 f$. $w$ hens, herety serving two patponse-keeping themselves in freth cors and testing the in their neightorns. They were not that exasperaune sort of people, either, who were indifierent to the comfort of theis ne:ghtrous. Thise cherished the delacion that thes kept their hens 2 t home, and they did aim to, bot some oll them had straing proclivitics. Then they tried to keep them
 beas had "imo presences," for while Mra Lane ant sewing ty
 avd genty-lhat very minute two or three of them would be
scratching for dear life in Mrs. Butler's smooth, neat beds, just sown with exrly lettuce and onions.
It is 2 Wonder that a woman with as much tinder in her compasition as Mrs. Butler bore it as well as she did. Especially was Topknot, a saucy little gray and white hen, with a jaunty tuft in top of her head. peculiarly trying Many a time had Mrs. Butler worked hard in her garden al he torennon, and looked from her window an hour after to behold Topknot comportably established in a well-filting round hole of her own digging, in the very centre of a circular bed, carefully prepared and sown with seeds of some raie and highly valued flowers. Again and agaio was she stoned adins hor io shace, and, ond complaw being
 ping though cracks whener she hauld powehom silp countably effect her escape; and the aext thing koown of her, she would sit complacenily in the very choicest part of irs Butler's sarden a persistant very choicest part of utterly regardiess of the por litle twolated plants that were uproied and crushed beneth her. It was on one these orcacions that Mrs Buter curght her, and in she o despair and vexaion, tossed her over the fences accompany ing the act with 2 beacy and audibly expressed wish that ${ }_{i}$ that hen was dead.
Mrs. Lane, happening to stand at her chamber mindow, saw the has'y manner in w'.ch her favourite hen came home as well as the exasperated expression on her neightour's ace, and likewise had an exaggerated report of what the cruel woman said. when ste "heaved the poor creature ove the fence
This episode, among other little things, caused a slight coldness to spriae up belween the laties, so that for a few days the well-trodden path between the hiuses was not so nuchured as heretofore. In the meantire Topknot dis ander the buche was not to be found in the hara hor, th premises of any of the neightoors: nor even in the barn of he Butlers, nor cosily settied under the low-spreadin branches of their evergreens. Plainip, Topknot was dead or she would certainly have come home at meal-times. She was a greas loss, 25 she came of a high family and was the baodsomest of the brood. Mirs. Butter had been interviemed concerning her, and had answered sharply that she shonld not mourn greatly if the troublesome creature was never found.
It so happened, a few days 2 flerward, that Mrs. Lan needed a cake pan of a cerian size and shape which she did not possers, but she knew irrs. Butier did; so she determined oignore the lithe unpleasantoess that existed, and ran in he back wap and borrow it. As she came along back hrough Mrs. Butler's woodshed, she nottreed a basket of cathers. She paused 2 moment, looking intently at them. hro murmured to herself. "Topknoi's feathers, I do be lisce." Ah. indeed! What and il Topknot had met he desting in Mra. Butler's dinner-pot! And then 2 suspicioa that had at times R, ated raguels through her mind, took shape and began to live. At dinner she half seriously men oned the ides to her hasband, anu be answered,
"Pooh I As if Mrs. Butici wis not able to buy all the
chickens she needs, and mure too
But those feathers: I would know those pretty gray and white feathers anywhere.

Now, my dear, you don't sappoze Topknot was the only hen io the world who owns a gray dress do fon Farmers bring in hens and chickens every day with all sort fraphers. Don't, for pity's sale, hasp suen a goolish thing not let forty hens come betwen my friendship with such a womian-a lithe high-strang perhaps, but a good woman after all. Then you must ounn that she bas boroc 2 great leal from Topknot. It would not be such a dreadial thing f she had boiled her ap. It would be the only way of mak:ing vore that she mould not be curnang ap acain conanually."
That afternoon Mirs Larie sook het work and went to sit othar with 3 rs heicham In the course of their neigh bourly conferencen Mirs. Ketchum asked,
$\because$ Did it ever occur to you, Mrs. Lane, that Mrs. Batler
 ask?"
"Oh. hings I heard her sering about some of her netghbnurs that she is very thick wuth," sald Mrs. Ketchum, ooking mysteri. $u$
sapicious 2nd incersed
Wormi, 1 heard she said that she gerer had beed more and that Mr. Brucr talked of prosecciiag your husband for
and damane
" S ufinad nonsense! " Mrk. Lane rjaculated, her zege kind ing "Everyhody knows we keep car bens shut up is is rue poir Topknot stiajed ooer there rccasionally. Butler's woodsher, I'm micici misraken. At any rate, brow they had yot pie for dinner almat that tirac.
No sooare had these words excaped her lips than she was
sorfy she had said them
解 ste-

- Oh, na, I doa't syy anpthing. It is only some of my
 e going
She cid not Donice ibe wide open eyes 2nd ears with which Sary Ann, Mirs. Ketchum s serranh, who xas al that momen splenibang the grate with coal, took in crery word, and much more than they wetc meast to coniey, and who, on the Errt leisare opportunits, hastener to chare sech a choice hit of gnesly with her deaz Inend, Ellea Brosn, who lired near. Enien, in tarn, related it to her mistrest, by this tirac Buller b=d siolen and kille: aEd cooked one of Mrat Lanc's

she was alive, and, if 'twas her last breath, ske'd say it, be cause she saw the feathers with her own eges in Mrs. Butier's wood-shed. Then Mrs. Morgan, her mistress, and a particuler friend of Mrs. Butter's, forgot that terse ulle ance "Where there is no tale-beater the strifc ceaseth." She put on her bonnet, straightway, zod carried this absurd story to Mrs. Buter. "She was not fond of repeating gossip in general, but ste hough 1 her dary, as a hiend, to cll this, 80 that it might be contradicted at once." Strange how many good women Satan finds to help him carry out his plans 1
And Mrs. Butler, though she had the reputation of being an excellent woman, consistent and foremost in every good word and work, was not proof against this most trying test. her spin took, she spa many loonsi all whd did not weak pint was her pride Nat mante. Mrs. Bumers wnow point was her pride. Never had a word, to her to be acejued of such small meanoss it ves unberable it was beyond anything. Her sare heart verified the truth of the proverb-" The words of a tale-bearer areas wounde" The sprinp-ime unfolded leaves sad blossome but the baloy airs and bright sunshine did not warm the hearts of the two women toward ezch other. Day atier day pased, the wo womea that latal day when they met at the fence, the yet. since that latal day when they met at he fence,
tiven no fign that each was aware of the other's hey had
existence.
It was inconvenient and forlorn in more waps than onethis breeze which the litlle hen hed raised. It was trying to give up the neighbourly kindnesses that they had been wont and cake-pans and yeass, of one another. All the seldumused utensils in one house were common property in both. Mrs. Butler's lap-board and sciles and colander, and Mrs. Lane's carpet-stretcher and step.ladder, often changed places ; and many a plate of cockies, or pran of biscults, had iravelled from one house to another, when either happened to bave unusual good luck in baking. There were no more runnings to add fro between the houses, or cheery calliags from each other's windows. The back gate was nailed up, and the cast windows in one house and the west windows in the other had their blinds carefally closed. They had been wont to share their joys and troubles. They had made calls and alicraoon visiss in company. But now, ene peeped through the blinds to make sure that the other was well on her way to sewing society before she would start; and, by degrees, their circle of friends bergan to understand the fact that Mrs. Batler and Mrs. Lane did not "speak.
Poor Mrs. Lane was consumed with vain regrets that she had, in h-r momentary vexation, allowed that slippery tongue of hers to make her so much trouble. Sometimes she was bearily sishamed of the whole thing, and would glady liave told Mrss. Buller so, only that she believed, whatever exiuses ir apologies she might make, the proad-spirtted whran would never receive them. At other umes she told herself that she did well to be angry; that of coarse Mrs Butler had made amay with her hen; it mas not likely she had intended it - probably some of the family had stoned Ars Bupler bad thocght ther migh as
 out or her, 2nd nobody woala be ke wiser hor in at was, areved with herself 25 thet Birs. Bouler shoald prore ber
 self so unworths; and then to crownit all by getung angry at her, whet probably, after all. she had only hated ai the on just as usual and put a bold face on the matter-it was 0n jasi 25 nssal
100 2Rsparating
It is manch more
Insmach more comfortable to blame other people than of her mischiel-making Lilenced ail ioward condemaznon of her mischiel-making tongue, and began to pride herself the atair before the church, iosticad of preserving 2 magoa. numous silence. What a sirir she coald makfo to De sure! It ras strange hort mach bad fecling one smail hen could occasion. Mrs. Ketchum was zmeyed to see MIrs. Lane sail past her on the street without so much 252 nod. Mirs. Buter looked askance across the church as Mre. Lane and woodered how she coold look the manister in the face white he took for bis text, "Speak noi evil oae of another, brethren," and then painted in virid words the sta of the slanderer. Then Mres Lane, in her torn, wondered how Mrs. Butler onold bave the face to take sach 2 promacent part in cherch afiairs, when ske had such $=\sin$ oa ber consacace.
(Tobe cor:inuct.)


## SFARRIAGE IN CHINA.

Atwong the pare Chinese, and especally among the higher ciasses, the affar is 2 much longet and more serions one. Froma the old Tarkish striciness with which females are sectaded, it is comparatively rare that a cocple sece cach other pretinus to hetrothal. and still more so that there nise to be any aequaintance beiween them. This has given a to he necessirs complogment of a characler equiraleal Mr. Foy's Farisian Marrimoniad Agency Offoc, or the daily marriage advertisements of ou: 050 papers. If yocr with is for marmact in ace absiract, ine broker will find you 2 fitiog parther first, adod necoriaic the transfer after. If 5on are less parcis philosopbical, and wabh to poastelt your 500 you are oaly in mame the paris. and the broker bey one prelimianty point to be ascertained. Flas your inteaded the same surame as yourscll? If so, it is a tatal dificalty, as the liwn of Chisa $\begin{gathered}\text { boald not perrait the marriage. If. }\end{gathered}$ Yowerer, the is Chan 20d yon are Le, or she is Kwan or Yu, and you rjoice in any other patronymic moxayylable, the next siep if for the broike to obrian from exch a tablet conkaining the name, zec, date and hour of birth, etc. These are the tiken to a diviner and compared, to see if
(and crossing the palm with silver is found to be as effec(and crossing the palm with silver is found to be as effec-
tual with fortune tellers in China as elsewherc). and the tual with fortune.-1elisers in equal - that is, if the station and wealth, of the two ramilles are similar-the proposal is made in due form. The wedding presents are then sent, ard, if accepted, the young
couple is consldered as legally betrothed. A lucky day couple is consldered as legally betrothed. A lucky day
must next be fixed for the wedding, and here our friend, the must next be faxed for the wedding, and here our friend, the
diviner, is again called upon. Previnus to the great day the diviner, is again called upon. Previnus to the great day the
bridegronm gets a new hat and takes a new name, while the bridegronm gets a hew hitherto hung down to her heels in a
lady whose hair has lady, whose hair has hitherto hung down to her heels in a
single hexvy plait, at the same time becomes initiated into single hesvy plait, at the same time becomes initiated into
the style of hair dressing prevalent among Chinese married the style of hair dressing prevalent among Cninese married
ladies, which consists in twistugg the harr into the form of an ladies, which consists in twistugg the hanr into the form of an
exaggerated tea-pot, and supporting it in that shape with a exaggerated tea-pot, and supporting it in that shape with a
narrow plate of gold or jade over the forchead, and a whole narrow plate of gid or jude over the frechead, and a whole
sytem of bodkins behind it. On the wedding morning syytem of bodkins brhind it. On the wedning morning presents and congratulations are sent to the bridegroom,
and among the rest a pair of geese; not sent as we might and among the rest a pair of geese; not sent as we might
imagine, bs some wicked wag or irreclaimable bachelor as imagine, bs some wicked wag or inseclaimable bachelor as
a personal reffection on the intellectual state of his friend, a personal refiection on the mintellectual state of his friend,
but as an emblem of domestic unnty and affection. The but as an emblemp of domestic unity and affection. The
ladies, too, in China, as well as elsewhere, indulge in a litie ladies, too, in China, as well as elsewhere, indulge in a littie
fashionable crying on the oceasion, and so the relatives of fashionable crying on the occasion, and so the relatives of
the bride spend the morning with her, weeping over her the bride spend the morning with her, weeping orer her
impendigg departure, or, more probally, theirown spinsterhood. - 'opular Scimec Honthly.

## HOW TO READ THE BIBLE.

Read it through once in course; less for spiritual benefit than to know what is in it, and where to go and find what you want. Such a reading once in a hifetime is enough. Read it by books. For this parpose it is well to get what is called a Paragraph Bible, in which the divisions into chapters and verses is not manntained. Then read the story of Esther, of of Ruth, or the Epistle to the Romans, or that to the Galatians, through at a siting. Or get a harmony of the Gospels-there are several such-and read
through the life of Christ as you would read a biography of Wesley or Luther. In such a reading Christ's teachings take on new aspects, and the life itself assumes a new sig. nificance.
Read it topically. Take 2 particalar subject on which you feel need of instruction. Take the American Tract Society's Bible text book as a basis. Examine every text there classified under the head Atonement, or take 4 Teacher's or 2 Bagster's Bible, and examine every text
therein referred to, as giving the titles oi Christ ; learn thertin referred to, as giving the titles oi Christ; leam thus what the
its branches
Study its spirituality. Study it according to your own mood, your own special need. Do you feel fell of aladness? Read its psalms of trast, or its promises of confort. it is bread-take what you
what your sool needs.
What your soil needs.
Read in other books that throw light on the Bible. Take such 2 book as "Van Lennep's Bible Lands."
Read it, and as you read examine every reference. You will read slowly, of charse, but you whll come upon new texts and apon new meaziags of old texts. You will be like a traveller going through a comparauvely new country, with 2 gaide $2 n d$ a friend.
Sometimes do not read at all. We suppose some of cor reade:s will be shocked at this adrice ; nevertheless. it ts more reverent to the Bible, to go to sleep at the Bible on a siagle verse, than to read a chaplet with heavy eses, 2
weary braio, and a nodding head. Sometumes the best meal reary brain, and a nodding head. Sometumes the best meal
is on an empty table. is on an empty table.
Finally, digest what you read. Appropriate it. It is better to read the one verse. "Blessed are the meek, for they shall inherit the eartb"" and practuse meekness for that day, than to read the whole Sermon on the Mount, and shat up yoar religion between the covers of yoar cold-clasped
Bible, and leare it there. He will love the Brble best who studies mosi zealously to practisc its precepts and ambibe its spirit.

## GIVING IS GETTING.

One of the plain paradoxes in the realm of mind, matter, nature and grace, is that tree gan comes only through loss: that hoarding is imporetishing; that there 1520 ways of kepping can's told oa 2 desired good, like partang with it: that 2equisition is a resalt of expenditure ; that dirvidng is maltiplyigg; that seatteriop is incereasing; that sperding is saviag; that giving is getting. Bedily sirength comes from
its expenditare, not from its hoarding. Erery wise ase of its expenditare, not from its hoarding. Ev
a mosele adds to the power of that muscle.
$=$ muscle adds to the power of that muscie.
It is the use, not the pestession, of any material treasare that gires it its hiphest ralce. Moacy gathered and kept for iss own sake increases the discontear and cravings ol its
haldes, while money soaght and handled for its beneficent holdes, while money soaght and handled for its beneficent
uset gives pleasere and satisfaction to bim who emploss it. As 2 rale, men and women of ample means shriak more from the outlay of moacy for their personal conveniepce and cajoyment, or for the giving of pleasare to othe:x, and seally have less of the delights which mones-using might
secure, than persons of mo:e limited income who tave no securc, than persons of mase limited income, who have no
desire for money as money ; no wish to be rich, in compari. son with the thooght of living and doing richly. Straitened arcamstances are quite likely to increase with growinh accenanlations of wealth; and ansatushed craviags for riches are cengeraled ly crery effort $2 t$ their satisfying. "There is "-indeed there if- what withboldeth mo.c than is moet, bot it teadeth to porerts." And the pinch of poverts
itelf can nerer nip so sharply as the piach of with ololdirs itself can
avarice.
Our mental facaluics gain through their using. Giviar oat thonght in specet or miting increases 00c's treaseres of our moral nature the same principle prerails President Hopkias said: "It is of the very pature of the aEections that they give, and of the desize that they receive."


When a child receives gifts, of selfishly employs what has been given him, his desites are exercised, and by their very exercire they are strenghened and intensified. But when the child gives to others it is his affections which are exercised and which are enlarged by therr exercise. As with -he child, so with those of us of any age. Only as wc give do we get anything that is worth getting. Only in our giving do we find the real pleasure of hiving. If we find that our sffection, our ministry, our presence, is a source of
comfort or pleasure, we recognize a blessing just there.

For the heart grows rich in giving ;
All its wealth is living gan.
Seeds, which mildew in the garner,
Scattered, fill with gold the plain."
-Sunday Sciool Times.

## MY LAST OFEER.

We had a wedding at our house last night,
With throng of gucsts and maze of flowers ;
The sooms were brillant with their blaze of light ; In song and fe-utug passed the hours.
M!y little nephew, four years and a half,
Bewildered, glad and wonder.eyed,
Saw all the glitter, heard the song and laugh, And ale unwonted sweets beside.

Next day he pondered much, as wise folks do, Theo craved of me a little boon;
Aunt Jeanie, why don't you get, married, too? I hope you'll do it very soon."

Dear child," I said, and stroked his curly head, "You would not wish it it you knew Instead of hiving here with you."

His face grew grave, for he had only thought
Of wedding cakes and ices sweet;
Bat, if with loss of auntic it were brought, The feast would be a donbtiul treat.

He clasped my neck and kissed me on the cheek, Then said the laving litule elf,
Aunt Jeanic, don't get married ill next week, And I will marry y 4 myself."
-C. M. St. Denys, in Our Continens.

## WHEAT IN HISTORY.

Dr. E. L. S:urtevant gives the fulloming account of the past of the wheat plant
' Isis uas supposed to have introduced wheat into Egypt, Demeter into Greece. and the Emperor Chin Wong snto China, about 3.000 B. C. In Eqrope at was cultivated before the period of history, as samples have been diseorered it was the Lacustrine dwellings of Swuzenland. In England thens probably not cultivated by the ancient Brunns; but the Anglo Saxinns, when Bede wrote, carty in the eughth
ceniury, sowed their wheat in sping; and in the days of centary, sowed their wheat in sping ; and in the days ol
Quen Elizabeih its culturation was but partal. Indeed, Queen Elizabeth its culturation was but partan). Indeed,
wheat was an article of comparative luanty till nearly the wheat twas an article of comparative lanury till nearly the
sevententh ceatury. In India, wheat seems not to be native bat introduced, for its Sanscmat name signifies 'food tor the barbarians; yet three varities are mentoned in the Bhavaprask2, one of which, a large-grained, is said to have come from he west, 2nd anoter, 2 small grained or beard less wheat, is said to have been indigenious to middle India.
"The first wheat raised in the New Fiutld was sown by Spaniards on lhe Island of Isabella in Jancary, 1404, and on March joih ears of com werie gathered. The foundation of the wheat harrest of Mexico is said to have been three or four grains carefally cultivated in 1530 , and preserved by 2 slave of Cortes. The first crop at Quito was raised by a Franciscan modk in front of the consent. Garcilasso de la Vega affirms that in Perr, up to 1548, wheaten bread had not been sold $2 t$ Cuxco. Wheat was first sown by Gosoold on Cuttyhank, one of the Elizabeth Islands in Bazzard's Bay, off Massachusetts, in 1602, when he first explored the casst. In 1604, on the Island of SL. Croix, neat Calias, Me., the Sieer de Moats had some wheat sown which fiourished fioely. In 16 II the first wheat appears to have been soma in Vimginia. Io 1636 samples of wheal proxn in the Dutch coloay at Netherlands were shown in Holland. It is probable that wheat was sown in the Plymonth colony prior to 1629, thoagh we find no record of it. 2nd in 1629. Fheat wheat was introduced inio the valley of the Mississippi by the Western Company. In 1799 it was known among caltivated crops of the Simos Indizas of the Gila Ruver,
Net Aferico."

## NOOSING SHARKS.

The Islasd of Aitutaki, one of the Mierres group, in the pacife, is surrounded by islets, anderneath which are submarine carerns, the homes of sharks. The natives classify them os izgoon sharks, which are comparatively tames, 29d
 and the natires sipity their feasts with the toothrome dish by a remarizable style of fishiog.
Arived orer the eatrance to the shark care, the fisherdites leaves his canoc to the cire of his conaphnions, and dites
cord.
He cepects to find tro or three sharks at hoome, well satisfed 2nd dmesty after feeding in the lafoon, with their tails torard the entrance. Selecting the larpest, the direr adroity adjusts 2 noose orer the tail, taking care that it hangs

friends in hauling up the fish. The astonished sleepers beneath suddenly find themselves ascending tail first to the surface. Once inside the canoe, a smatt blow from an axe between the eyes or on the tall en ds ils career.
But acciden's sometimes happen to the bravest. One of the most successful shark-catchers at Aitutaki was Reubeaz whose ancestors had excelled at this perilous aport. Long
practice had made 1 im alcrost practice had made lim alm.ost amphibious.
One Saturday morning he started out with
One Saturday morning he started out with two companions in a canoe across the placid lagoon to one of the more dis. taut isiets. Grapping in his left hand a noose provided for
the occasion, he dove down to the eatrance ol a large sub. the occasion.
marine cave.
On entering it, Reubsna found several sharks lazily resting themselves. In a trice a slip. knot was skilfully passed over the tail of the nearest shark whout exciting its ire The shark, at this critical juncture, woved so that there was not room enough for Reubena to get out.

He now gently stroked the side of the shark, and succeeded in inducing it to move away, so as to permit his exit. This operation is said to be very agreeable to the gish; but through nervousness the shatk be stroked the wrong way, its
anger is sure to be excited, and the diver's life would be the anger is sure
certain forfeit.
Reubena was making his escape, when, in his dismay, another large shark came back from feeding in the lagoon, and blocked up the entrance with his unwieldy body. To get out now was impossibie, for
strake the head of the monster.
The captive fisherman walted, boping the shark would go farther io, so as to leave the opening free. Unhappily the farther id, so as to leave the opening free. Unhappily the
huge fish did not move. Reubena's agony became intense; huge fish did not move. Reubena's agony became intense;
secunds seemed to be houts. Was he doomed to perish in seconds seemed
a shark cave?
At last the shark passed quietly into the interior, and Reubena was barely able to get out of the cave and rise to the surface. His associates in the canoe, who had become anxious for his salety, seized him by the hair and pulled him in, blood flowing from his ears, eges, and nostrils.Youth's Compariort.

TRUE GENTLEMANLINESS.
True geotlemanliness includes both manliness and gentle. ness. The real gentieman combines the tenderness of the womanly nature with the strength and nobleness of high manhood. The lad who aspires to be a gealemman must not
be content with lifing his cap to a lady, and showing her be content with lifting his cap to a lady, and showing her
deference in his nords and acions. That is all well, as far defercees. his horas and actons or it as it goes; but it does not go far enough. Real gallantry
does not limit its show of sespect to :hose who are of the does not limit its show of respect to :tuse who are of the
gentler sex: it is as deferental to age, and as keenly alive gentier sex: it is as deferential to age, and 25 keenily alive
to the needs of the weaker of erther sex, as it is unformly to the peeds of the weater of elther sex, as it is uniformly
courteoas and polite towards every woman. Bat it is 2 courteoas and polite towards every womaick to rise from very common ching to see a joung man quick to ris isme his seat in a crowded cas and proalt the phace to a welling that seat to an aged genteman who had been standing ing that seat to 2 naged fentleman who had been stanenag
before him fut a considerabic tume. His action proves his belure him fut a consiucrabic time. his action proves his
attention to ladies, but it dues not show his genilenasliness attention to ladies, but it dees not show his genilemanlineas. them that it is quite as 1 mportant to give deference to age 2s them that it is quite as amportant to give deference to $25 e$ as
to sex. The command. Theu shalt trse up before the to sex. The command, "Theu shalt fise up before the
hoary head, and honous the face of the old mana, mas spoken hoary hean, and honous the face of the old man, F2s spoken
by Gud Himself befure the cummand had gone fork to be very quick to give yoor seat tu a pretty girl in the horse-


## FRETFULNESS.

Fretfulaess is one of the most common and gnevoas iaults of ordinary life. "I dare no more fret," said Wesley. " than 1 dare corre and sweat." Nubing more sarely ana certanly destroys the peace of a family than the canseless, profiless hatit of freting, grumbing, and fault-finding so common in many families.
the home of a fretifl man or roman, and mark the discomfort, the unhappiness, the positive misery thet ofted canse withia its saered enclosures. Norice a frefol man in his basiness relations-how disagreeable he mikes himself and others, nad how mach he devracts
his own pourer to act coolly
and wisely. See such 2 man ia church-what 20 act coont of friction and treuble be gaves church - what an amoonat or friction and trouble be causes, where all should work smoorhls and quictly. Bessices the
rasping and discomfort sech a persoa oceanves, ihe example raspiag 20d discomiort sech a persoa ceeanlons, the example he sets is most pernicions. Children casily catch the nanblarne but theraselses it they have worrisome, teasing, disagreezble children."
"Fret not thyself because of evildoers." Put 2 way grembligg and complainigg. Look on the brigh side, make he best of everythiag, bridie gear temper, rule your own spirit, and pascess your soul in patience and in peace.-

## HOW THE ALLIGATOR FEEDS.

An alligator's throat is an animated sewer. Erergthing that lodges in his mouth gocs domb. IIe is a lary don, 20d instead of huatiog for momething to eat, he lets his rieteals bunt for him ; ihat is, he lies with his great mouth open, apparentis dead, like the possom. Soona bug cranls quites, then 2 ty, then seretal grats, and 2001005 at mof quiting for 2 whole drove of thinge. He docs his cating by wholezale. A litul later 2 lizand will cool himsell rader the sthade of the apper jaw. Then 2 fewf frops
will hop tp to catch the mosquitocs, and gmats lipht on will hop up to catch the mosquitoct, and gate light on the frops. Finally, a whole village of insects and reptiles
 is an earthquake. The big jaz falls, the alligator slyly
blinks one cje, galps dowa the entire penareric, and opens blinks one cje, golps dowa the eatire menarge
his great frout door sgain for more visitor.


## YOUNG CANADA.

## THE STOLEN CUSTAKD. <br> 4 tIUE INODENT.

Bagar-toothed Diok
For dainties was sick.
So he slyls orept into the kitchen,
Saatohed a oup from tho pantry
And dartel oat quick,
Unnotioed by mother or Gretohen.
Whispered ho, "Thero's no cake, For to-morror they bake,
Bat this ousterd looks rich and delioious.
How they'll scold at the rats,
Or the mice, or the cats;
For of mo I don't think they're suspiaous.
"They might bave fillod up
Such a mean littlo cup!
And, for want of a spoon, I must dring it;
Bnt 'tis easy to pour,-
Hark! who's at tho door?"
And the castard ment domn ore son'd think it.
With a shriek he sprang ny,
To the floor durbed the cap,
Then be howled, tamblod, splattered and blustered, Till the terrible din
Brought the riole household in,-
Dick had strallored a capiol of mastand ! -Our Lielle Orres.

## READY FOR A FIGHT.

It is not necessary to cross the Atlantic in order to visit places that are foreign and strange to American travellers. How different is a Canadian city from one of our own ! Halifax, in Nova Scotia, for example, amazes and amuses an American citizen, from the moment be gets a view of its magnificent barbour-one of the finest in the world. He sees for the first time in his life-unless he hes travelled abroad-a city that is held on the tenure of conquest. It is a city fortified and garrisoned ; and the fortifications are on a scale that recalls those of Gibraltar.
As soon as the visitor is fairly within view of the city, and while it is still five or six miles distant, he sees on a lofty height, commanding the approach to it, a mass of grasscovered earthworks, with great guns slanting down from deep embrasures. The harbour narrows as the city is neared, and very soon is seen, on another height, a stronger and newer fort, with guns of the best calibre, all aimed with a sly and covert menace at some imaginary foe. In front of the town nature has placed a small island, a green chunk of earth, of irregular shape, rising from the water a hundred feet or more; a cool and pleasant spot for a picnic. Man bas converted it into an easthwork of alnost Gibraltar strength. He has dug into it, undermined it, and placed in it as many great guns as he could point at the imaginary foe whe covets the city, and is coming up the bay to capture it.

Helifax rises from the water's edge to near the summit of an eminence tro hundred and fifty feet high. The summit itself is crowned by an extensive fortification, called the Cita-del-green with grassy slopes-in which are set a grest number of huge pieces of ordnance, slanting over the town toward the same phantom foe. Just above the city rides at anchor a mighty ironclad of eight thousand tons barden. She has a crew of seven bundred and fifty men. Her guns are few in number,
but of earthquake powor, capable of burling six hundred-pound balls at any power presuming to onter the harbour with uncivil intent. This monster is painted white and is full of the best-natured fellows to be found afloat. Near her lie two other ironclads, smaller, but by no means small, each swarming with blue-clad men, not unwilling to exchange chaff with a passing boat.

On shore, what first greets the eye of a new-comer? A squad of red-coats going to relieve sentries. Their red coats are of the reddest red. Their summer helmets are of spotless white, and on the front of them glistens in letters of burnished gold the number of their regiment and the arms of England. If the object of those who designed this uniform was to give to it the most conspicuous character possible, that object has been accomplished. But that is no affair of ours. What we wish to remark is, that there are about three thousand of these red-coated gentlemen. Splendidly drilled and equipped, they pass the scason at this agrecable summer resort, serenely awaiting the hostilities of the shadowy foe whose coming is so long delayed. It is evident that the British lion has a strong grip upon the beautiful capital of Nova Scotia. But the puzzle to an American is, Who wants to get it away from him, that he should take the trouble to hold it so extremely tight?
We could not but think of the words of John Bright: "If you want war, prepare for war; if you want peace, prepare for peace." England prepares for war, and her experience, like that of other warlike nations, gives significance to Mr. Bright's aphorism-she generally has war, whether she wents it or not. -Youtlis Companion.

$$
\begin{aligned}
& \text { OLD RYE'S SPEECF. } \\
& \text { I ras mado to oco eaten, } \\
& \text { And not to bo drant, } \\
& \text { To be trreshed in a barn, } \\
& \text { Not sosked in a tank. } \\
& \text { I come as a blessing } \\
& \text { When pat through the mill- } \\
& \text { As a blight and a carse } \\
& \text { When ran through a still. } \\
& \text { Jrake mo up into loaves } \\
& \text { And your childron are fod, } \\
& \text { But if into drink } \\
& \text { I will starro them instom. } \\
& \text { In bread Tra a scrrant - } \\
& \text { The eater sball rulo; } \\
& \text { In drink I am master, } \\
& \text { The drinker a fool. } \\
& \text { Then remomber the warning: } \\
& \text { My strength I'll emplos, } \\
& \text { If eaton, to streagthen, } \\
& \text { It drant, to dostros. }
\end{aligned}
$$

## 4 NOBLE LAD.

A poor boy, whose name no one knows, but we hope that it is in the Book of life, found three little children who, like himself, had been washed ashore from one of the many wrecks, mandering along the dreary coast in the driving sleet. They were crying bitterly, having been parted from their parents, ana not knowing whether they were drowned or saved.

The poor lad took them to a sheltered spot, plucked moss for them, and made them a rade, but soft bed; and then, taking off his own jacket to cover them, sat by them all the
night long, southing their terror till they fell aslecp.
In the morning, leaving them still asleep, he went in search of the parents, and to his great joy met them looking for their children, whom they had given up for dend. He directed them where to find them, and then went on himself to find some place of shelter and refreshment.
But when the parents were returning with their recovered little ones, they found their brave preserver lying quite dead upon the snow, not far from where they parted from him.

The long exposure in his exhausted state was too much for his little strength, and having saved his little charges-a stranger to them as they to him-he lay down to die.

A sad story is this, and one that moves our hearts. How much more should our hearts be moved by the story of Him who freely gave His life that H e might save us from eternal death!

## THE THREE SIEVES.

"O, mamma!" cried little Blanche Philpot, "I heard such a tale about Edith Howard! I did not think she could be so very naughty. One-"
"Aly dear," interrupted Mrs. Philpot, " before you continue, we will see if your story will pass three sieves."
"What does that mean, mamma ?" inquired Blanche.
"I will explain it. In the first place, $I_{8}$ it true?"
"I suppose so; I got it from Niss White, and she is a great friend of Edith's."
"And does sbe show her friendship by telling tales on her? In the next place, though you can prove it to be true, Is it kind?"
"I did not mean to be unkind; but I am afraid I was. I would not like Edith to speak of me as I have of her."
"And, Is it necessary?"
"No; of course not, mamma; there is no need for me to mention it at all."
"Then put a bridle on your tongue. If jou cannot speak well, speak not at all."

## LOVE YOUR ENEAIES.

A large boy in a school was so abusive to the younger ones, that the teacher took the vote of the school whether he should be expelled. All the small boys voted to expel him, excepi one, who was scarcely five years old. Yet he kners very well that the larger boy would probably continue to abuse him. "Why then did jou vote to have him stay?" said the teacher. "Because, if he is expelled, perhaps he will not learn any more about God, and so he will be more wicked still." "Do gou forgive him then ?" ssid the teacher. "Yes," said he; "papa, and mamma, and you, all forgive me when I do wrong; God forgives me too; and I must do the same."
"Tre hope of the righteous shall be gladness; but the expectation of the vicked shall perish. The way of the Lord is strength to the upright; bat destruction shall be to the workers of iniquity,"-Prov, x. 2S, 29.

## Scientift and Mgsful.

- Pear Marbaladr.-Boil the pears unil soft; when cold, rub the pulp through a sieve, and boil to a jelly, allowing one pound of sugar to two pounds of pears. Many kiads of marmalade are made in the same way.
To Prevent Milddiw on Preserves.Take the whice of an egg and wet slighily both sides of a piece of letter-paper sufficlently large to corer the top of the preserves saugly. I have kept them free from mould and spoiling two years.
Hara Wibtab's Bafsan of Wild Carnit always at hand. It oures Coughs, Colds, Bronohitis, Whooping Cough, Croap, Influenen, Consumption, and all Throat and Lang Complainta, Fifty conts an
bottia Bold by dealers generally.

Canned Prachrs.-Pet the peaches, cut them in halves, and remove the stones. To four pounds of peaches take one pound of sugar; makea syrup of the sugar and a little
water, and add the peaches. Cook slowly twenty minutes, and put in cans while hot.

Sponge Cake. -One pound of sugar, one pound flour, ten eggs. Break the eggs in a resse. Add the sugar. Keep over a fire until sightly Farm. Beat till very light.
Add the flour, and flavour with lemon to suit the taste. Bake immediately in a quick suit the
oven.

Peach Preserves.-Peel and halve the peaches. To four pounds of fruit take three pounds of sugar; make a syrup of the sugar, add the peaches, and cook twenty minutes. Put them into a jar. The next day pour off the juice, boil it down, and pour it hot over the peaches.
Pseotila Srbop has cured thousands Whovrere suffering from Dyspepsia, Debility, Liver Complaint, Boils, Humours, Female Complaints, otc. Pamphlets Ires to any address. Beth W. Fowle \& Son, Boston. Sold by dealers generally.
A pleashet prink for the sick : Take a dessert teaspoonful of arrowroot and add a teaspoonful of milk; wet and rub in smooth. sugar. Heat a half-pint of good rich milk and bring it just up to the boil. Then, when it boils, stir in carefully the arrowroot and sugar. Allow it to boil three minutes, and give either warm o: cold.
Giriger Snaps. - Never put ginger snaps in a jar while they are hot; take them from the lins and lay them on plates to cool, otherwise they will steam and become moist, and will not be crisp and brittle; other cookies will not meed so long a cooling process, and cake which you wish to keep a week or ten days is improved by being wrapped in a towel while it is still in the tin: let it stand in this way for two or three hours.

Currant Fritters--Currant fritters are made of one cup and a half of very fine bread crumbs, nae lablespoonful and 2 half of tour, one cup and a hall of sweet milk, Tae quarter of a poand of well-wasted English currants (drain the currants thoroughly), two Cags, tro tablesponatus of sugar, ${ }^{2}$
small lump of butter. Flavour with cinna. mon or nutoeg to suit your taste; drop in mon or natang to suit your taste; drop in
spoondols lin Lot lard, and fry natil done. Ent with sugar.

How to Saroke Hams.-A smoke-house should be rell rentilated, and the hams be hang at least eight or ten feet abore the fire, and the smoke given ont in moderate quantities, and come from corn-cobs or hickory wood. It is important that the hams be kepl cool and dry through the whole operation. Proper reatilation of the smokehouse secures this. If they become moist
by improper tentilation, or zre placed so by improper rentilation, or are placed so
near the fire as to be heated, their flavour is near the kre as to be heated, then
greatls injared.-Ploughenar.
Tine Mayomsaise Sauce for Chicken.
-If 500 have six sheils of chicken allow foor egre; separate the yolks carefully from the whites, put thern into a basin with a
salt.spoonfal of dry mostard, and with a salt.spoonful of dry mastard, and with a
wooden spoon incorporate all well together; wooden spoon incorporate all well together ;
then add slowly, almost drop by drop, five then add slowly, almost drop by drop, five
table-spoonfals of salad oil alternately with table-spooufals of salad oil allernately with
about one dessert-spoonfol of vinegar, most about one dessert-sponnful of vinegar, most
carefally added (the whole grantity of vine. carefally added (the whole quantity of vine-
gar in the sance shosid be but one dessertgar in the sance shomid be but one dessert-
spoonful); keep stirsing one way all the tume, in 2 rety cool place, with a woocica spoon.
To Pdrify Water.-A large spoonful of palrerized alom, sprinkled ia a bogshead of water and stirred, will, after the lapse of tie botiom, and mate it as clear and sxeet es fresh spring rater; a pailfal may be streciened by, siy, 2 ieaspoonfal to every fcur gallons. Ancuher meihod of clearing baring mashed them to a peste, stir them in
water: they will take with them all the impurity of the water to the bottom. This is more expensive than the alum. and also more
efectual. A handful will cleanse a cask of water of forty gallons.
Gools Braf Tea.-Cut a pound of rump steak in quarter-inch cutres on a board wath a very sharp knife. Sprinkle salt on the bits of beef-about as much as would seacon it if ar, and let it stand fifteen minutes. Ardd four great spuonfuls of cold water, cover the jar air-light, and tet itstand one hour. Then et the jar into a kettle of cold water on the Hove. Letit come very slowly to a buil. Then set it on the back part of the stove where it will keep at a boiling heat, but without boil-
ing until wanted. After straining it for use, add more salt if necessary, and a sprinkle of red pepper if the case allows it. Inis con. centrates the nourishment, and makes it more palatable.
Aarber Soup or Clear Broth.-This Tap is served at almost all company dinners. Take a large soup bone (ay two pounds), a cold waier and boil slowly, for five hours cold water, and boil slowly for five hours hen add an onion, two spilgs of parsiey, half a small carroo., half a sman parnsnip, and salt. Strain the soup cloves, pepper and salt. Sirain the soup into an earthen day , and let it remain over bight. Next day remove the cike of fat on the top; cake out the jelly, avaiding the settlings, and mix the shells Boil quickly for half a mgs with the shells. Boil quickly for half a minute; ff carefully all the scum and whites of the afi carefully all the scum and whites of the eggs from the top, not slirring the soup it should be quite clear. This soup may is should be quile clear. this soup may then be put aide and reheated just before crving. Add then large a sponnfal o also a slight flayour.
Night Air.-An extraordinary fallacy is the dread of night air. What air can we breathe at night but night air? The choice is between pure night air from without and foul air from within. Most penple prefer the latter-an unaccountable choice. What will they say if it is proved :o be true thal ully one-half of all the direases we suffer rom are occasioned by people sleeping with their windors shut? An opened window, most nights in the year, can never hurt any one. In great cities, night air is often the best and purest air to be had in the twenty. lour hours. I could better understand shutling the mindows in town during the day than during the night, for the sake of the sick. The absence of smoke, the quiet, all cond to make night the best time for aining the patient. One of our highest medical authorities un coasumption and climate has said that the air in London is never so good as after 10 o'clock at night. Always ait your room, then, from the outside air, if possible. Windows are made to open, doors are made to shut-a troth which is exiremely difficalt of apprehension. Every soom must be aired from without-every passage from within: But the fewer passages there are in an hospital the better.

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## TORONTO WHOLESALE MARKETS．

Omics Rumal Canadian． Toronto，Sopt． $80 \mathrm{LL}, 1882$.
The provision dealers find prices firmer since the recovery in the Chicago market， but grain merchants find it difficult 10 get prices established．Old grain is about ex hausted，and the abundaot harrests here and
in the Slates point to low prices for new．
Provisions．－The Chicago market has almost entirely recovered from the bad break in prices last week，Mess Pork being now quoted $\$ 21.25$ ，and Lard 123 fc ．This is an advance of $\$ 2$ per bbl．on pork and ic． per lb ．on lard．This has stiffened holders＇ feelings here，and tull prices are asked for the amall stocks which remain on hand． There has been a fair jobbing trade，with sales of one or tro car loads of long clear bacon．There is a little Aress But in market， which is held at $\$ 15$ to $\$ 16$ ．The dulness in Butter continues，the only demand being trom the city trade，which requires a finer quality than most commission men can offer． Chese is still dull and weak；factorymen now offer August make at sic．，but shippers hold off．Evaporated Apples None in market ；a telv dried are selling withun our range．Eggr are temporarily scarce，and are beld at 18 c ． firm，some asking tge Hops．50c．to $55 c .1$ and from．It is generally conceded that the crop is a short one，and holders as well as growers have got their ideas up bigh，the lat－ ter talking of soc．This price would be paid by brewers for No．$x$ new－there are no old in maxket－but if they go any higher tuteir use will be restricted，while batley and other materials will come into play．Dresed Hogs， price itregular，say from $\$ 9$ to $\$ 10$ ．
Respecting hoz．packing in the United State，the Clacinal 14 th inst．says thatreporrs of light supplies of old stock contune to come from all points east or hi Mispl packed at Chicago from ist March to $13^{\text {th }}$ September this year was oily $1,434.000$ ，as compared with $2,100,000$ in same ume last sear．There is a decine，too，at erery other poon hase ， decrease of 975.000 ，or 27 per cest．

Flour and meal－There is very littie to repon．The only kind of flour moving is Superior Exira，of which there have been sales at $\$ 5.20$ for old ；the new of this grade mould not bing over $\$ 5$ ．Extra is held at $\$ 5.10$ ，bat other grades are nominal．Oat－ mad continues from at even higher price， being scarce；the absence of transactions is the result of want of stock．Bran we quote 2i $\$ 13$ ．
Grain．－The stocks of grain at this point xre very low，the total being but 37.611 bushels in store，grainst 56,900 hashels last year：
Whent Fall Sep．18．Sep．11．Sep．＇8ı． $\begin{array}{lllll}\text { Wheat，Fall．．} & 13.1277 & \text { 24，} 239 & 64200 \\ \text { Wbeat，Spring } & 5.085 & 13.790 & 10.793\end{array}$ $\begin{array}{lrrr}\text { Wheat，Spring } & 5,085 & 13.790 & 10.793 \\ \text { Barley }^{2} & \cdots \cdots & 8,032 & 7.464 \\ \text { Ots } & 65829\end{array}$
 Total bush．．$\frac{37,614}{56,200} \frac{6,204}{138,783}$ English adrices point to lower prices；Beer－ bohm＇s telegram of hast week states that corm is is．casier，while off－coast cargoes of wheat are quoted 395 iasteace of 415．on the 8 th inst，a dectine of 25 ．Western American markets are steady，but with weaker feeling． There bave been sales here ofold Wheat，boih Spring and Fall，at our quotations，and more woold be taken if it could be had，bat trans－ setions are limited by the slender stocks as giren in above table．$\$ 1$ to $\$ 1.05$ has been paid，we raderstand，for new Write wheat． but new Spring has not begun to move． Barloy－No morement can be reported jet． bat nomioal prices are about 7oc．for No． 2 Extra．Oat＇s are wanted this week，and are quoted ic．to 2 c ．higher，with almost none to be had．A quantity intended to be sent early io tbe month was stopped by the drop in prices ten cays 2go．Pecas are likemise searce，and consequenty in demand．There is nothing stirning in cither Cors or Ryc．
Hingsana Skivs．Prices analtered from those of last rieek，exeept that sheepikins are adranced jc．The moveroent in bides con－ tianes moderate．


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